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STS-8 BET RESULTS

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TABLE OF CONTENTS

Section	<u>Title</u> Pa	ıge
	ABSTRACT i	i
I	ENTRY TRAJECTORY RECONSTRUCTION	1
-	I.a. Dynamic data	1 2 2
II		18
III	AEROBET DEVELOPMENT	27
IV	MMLE INPUT FILES	64
	APPENDIX A - Spacecraft and Physical Constants . 6	66
	APPENDIX B - Final Residuals for STS-8 Trajectory Reconstruction	73
	APPENDIX C - Listing of STS8BET Air Relative Parameters	83
	APPENDIX D - STS-8 Source and Output Products for Archival	67

N84-11197

ABSTRACT

This report documents the final Best Estimate Trajectory (BET) products, i.e., the reconstructed trajectory, the Extended BET, AEROBET and MMLE input files, generated for the eighth NASA Space Shuttle flight.

Section I discusses the reconstructed trajectory (inertial BET) for this "Challenger" flight, the first night landing. The results are available as BET8T06 under user catalog 169750N. State (position, velocity, and attitude) plus three accelerometer scale factors were determined from fitting the Guam S-band data, seven C-band passes, and pseudo Doppler and altimeter during rollout on Runway 22. The anchor epoch utilized for the batch weighted-least-squares determination was Sept. 5, 1983 7 1 50 0 (25310 GMT seconds). The spacecraft altitude at epoch is ~617 kft. IMU2 data were selected for the reconstruction.

The Extended BET, STS8BET/UN=274885C, is based on merging the inertial parameters with the final adopted LAIRS file, LAIRJ8/UN=476250C. This file is the LaRC LAIRS file, STS8MET/712662N, with subsonic winds replaced by jimsphere measurements as discussed in Section II. The AEROBET file is on physical nine track reel NX0483 (duplicated on NX0484 for back-up purposes). Plots of the relevant data from the AEROBET are included in Section III. These include spacecraft configuration and dynamics, as well as flight/data base comparisons.

MMLE input files (25 Hz GTFILEs) were generated based on the IMU2 data as well as ACIP data. The latter file is on NX0943 and was generated for 15 maneuver periods as discussed in Section IV. The IMU2 file is on NX0844 and covers the time span from epoch to main gear touchdown.

Attached as appendices are:

and

APPENDIX A - Spacecraft and physical constants utilized, APPENDIX B - Final residual plots for the tracking data, APPENDIX C - 1 second listing of the air relative information, APPENDIX D - A data (source and output) archival.

Relevant times and events for STS-8 are:

(Event)	Time (sec from epoch)
Main Gear	2309.
Weight on Wheels (WOW)	2330.
Weight on Nose Gear (WONG	G) 2339.
Stop time	2386.

I. Entry Trajectory Reconstruction

I.a. Dynamic data

Time homogeneous ~1 Hz measurements from IMU2 of the tri-redundant set were selected as the dynamic data source for STS-8 entry reconstruction. Figure 1 presents strip charts over five hundred (500) second intervals of the Shuttle Challenger dynamics during the eighth entry flight. Plotted are body axes rates and accelerations derived from the IMU measured ΔV_{MSO} and quaternions. Time zero on these charts corresponds to the processing epoch of 25310 GMT seconds (h~617 kft). Selection of IMU2 was arbitrary since the performance of each IMU was excellent as expected. Relative IMU comparisons showed that IMU2 was selected as the mid-value generally as frequent as the other units as shown in the following table:

Accelerometer Comparisons Based on 2422 Points

	Percentage mid-value measurement			
	IMU1	IMU2	IMU3	
$\Delta V_{\mathrm{X_{M50}}}$	48.6	34.4	17.0	
ΔV _{YM50}	36.4	40.9	22.7	
ΔV _{Z_{M50}}	36.2	38.4	25.4	

Gyro Comparisons Based on 2429 Points

	Percentag	Percentage mid-value measurement		
	IMU1	IMU2	IMU3	
Euler ψ	11.3	30.2	58.5	
Euler θ	20.0	52.7	27.3	
Euler ϕ	14.9	41.9	43.2	
Total angle, Ω	42.4	46.0	11.6	
Total angular rate, $\hat{\Omega}$	33.3	34.2	32.5	

In terms of the total sensed ΔV (magnitude) measurement, IMU1 and IMU2 compared to within 1.1 fps. IMU3 was essentially within 3 fps of the other two instruments.

There were no major data gaps in the Operational Instrumentation (OI) recorded data. Of the data gaps noted, the following list summarizes the major IMU data losses:

time	loss of ΔV's	loss of quaternions
(sec from epoch)	(seconds)	(seconds)
~355	8.0	
~338		3.84
~665	10.9	10.60

I.b. Tracking data

Tracking coverage for the 8th mission was provided by an S-band pass from Guam (~12° max elevation) and seven C-band radars: Pt. Pillar, St. Nicolas Island, two Vandenberg stations, and three from the Edwards complex (including the Dryden station). Since this was a night landing, no cine-theodolite data were available. Thus, pseudo Doppler and altimeter data were processed during rollout through post stop on Runway 22 at EAFB. Tracking coverages are depicted in Figures 2 and 3. Figure 2 shows the entire ground track for STS-8 with stations (complexes) as noted. Time ticks every 500 seconds and correspondingly, the altitude, are superimposed thereon. Figure 3 shows (a) the uppermost altitude portion to C-band acquisition, (b) C-band coverages from acquisition to final approach, and (c) the final approach and landing segment. Times and altitudes are as indicated. Tracking station locations with respect to the ground track are also shown. Acronyms and locations utilized for the various trackers are given in Table I.

I.c. Reconstruction results

The final BET solution for STS-8 is presented in Table II. The final solution, BET8T06, was obtained solving for state and three accelerometer scale factors. The three extended parameters were determined to be -63, 96, and -24 ppm for the X, Y, and Z accelerometers, respectively. For information in Table II, the initial state (the JSC Guam only solution), and a state only estimate from ENTREE (BET8T05) are included. It is seen that the included terms result in a minimal change to the state (and attitude) estimate while improving the fit from 2.2 σ to 1.2 σ (weighted root-mean-square). Similarly, the weighted mean, $\mu_{\rm w}$, is significantly reduced.

Quality of the data fit in general is seen in Appendix B which shows the resulting residuals, by station and data type, for the solution. Composite range, azimuth, and elevation residuals are included in this section as Figures 4, 5, and 6, respectively. Table III presents a summary of the residuals by station.

Comparisons of the final BET position and velocity after rollout on Runway 22 versus post-landed survey values are given below:

END CONDITIONS AT VEHICLE STOP (Runway #22 Coordinates)

	Survey	BET8T06
X, ft	+12172	+12122
Y, ft	0	+12
h-hRW,ft	+16	+22
$\ddot{\bar{X}}$, fps	0	+0.02
Ϋ́, fps	0	-0.01
h, fps	0	-0.13

Figure 7 presents plots of the BET during rollout on Runway 22. Surveyed values are depicted thereon. Vehicle stop occurs 2386 seconds after epoch.

N84-11197#

TYPT		ST.	ATION NAME	LATITUDE (GEOD) (deg)	LONGITUDE (deg)	ALT (ABOVE REF.) (ft)	MODULUS OF REFRACTION	SCALE HEIGH
S-band		1	GWMS	13.31063	144.73681	380,4000	380	
G-band	FPQ-6	2	PTPC	37.49784	237.50039	-27.0341	334	5795
C-ban∈	TPQ-18	3	VDBC	34.66587	239.41865	203.5433	338	6821
C-ban∈	FPS-16	5	VDSC	34,58276	239.43853	1972.1457	319	6507
C-band	FPS-16	9	FRCC	34.96083	242.08856	2480.3478	299	6049
L- ban≓	FPS-16	10	EAFC	34.96962	242.06974	2521.7192	299	7387
C-ban⊂		15	SNFC	33.24771	240.47935	732.1522	335	7366
C-band ,	FPS-16	20	EFFC	34,97046	242.06858	2540.2200	299	6263 7356

GWMS mounted N/S, frequency .21941732E8 Hz

Table 1. STS-8 station locations and refraction data

EPOCH: 9/15/83 7^h1^m50^s (25310^s) GMT

DATA TYPES: S-band, 1 radar (GWMS)
C-band, 7 radars (PTPC, VDBC, VDSC, SNFC, FRCC, EFFC, EAFC)

Pseudo altimeter post WONG

Pseudo Doppler post STOP (3 stations)

INITIAL CONDITIONS (ENTREE coordinates)

Parameter	Initial Estimate, JSC	BET8T05 ⁽¹⁾	BET8T06 ⁽²⁾
V _R , fps	24014.000	24014.269	24013.984
γ_R , deg	-0.79972395	-0.79866979	-0.79864150
Ψ_{R} , deg	59.877752	59.876210	59.876667
h _D , ft	617233.31	617348.70	617298.91
$\Phi_{ m D}$, deg	2.9698077	2.9697235	2.9697829
λ , deg	138.00891	138.00893	138.00896
ψ , deg	55.9754853	55.952864	55.956986
θ , deg	25.9242803 see Appendix	25.909712	25.907480
φ , deg	-4.4844149 B	-4.5529199	-4.5498941
ΔS _{F_X} , ppm	N/A	N/A	-63
ΔS _F , ppm	N/A	N/A	96
ΔS _F , ppm	N/A	N/A	-24
¹ Ζ μ _w	N/A	-1.095	-0.092
σ _w	N/A	2.203	1.198
••			

Table II. STS-8 solution and comparisons

⁽²⁾ state and scale factors

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OBSERVATION STATISTICS BASED ON FINAL STATE

STA	TION	OBSERVATION	0	BSER	VATIONS	AVERAGE	AVERAGE	STANDARD	WEIGHTED
ΝО.	NAME	TYPE		ACC	EPTED	WEIGHT. RES.	RESIDUAL	STAND. DEV.	STAND. DEV.
_									
0	- · · · · ·	ALTIMETER		OF	91	77204884E+00	37058344E+01	.25965168E+01	.54094099E+00
1		RANGE	225		225	19756968E-01	29373263E+00	.50101900E+01	.77224750E+00
1		DOPPLER	224		224	45216445E+00	19388201E+00	.37895684E+00	.10113330E+01
ŀ		X-ANGLE	123		123	69244435E+00	14005260E-01	.13681095E-01	.66120566E+00
1		Y-ANGLE	225		225	.18037699E-01	.45518133E-03	.10437638E-01	.83293941E+00
2		RANGE		0F	75	36134681E+00	11109389E+02	.19037424E+02	.62007853E+00
2		AZIMUTH		OF	79	12953872E+00	14844044E-02	.33567539E-02	.29293204E+00
2		ELEVATION		0F	79	.46628325E+00	.84770225E-02	.60134231E-02	.32795937E+00
3		RANGE	176		176	57120683E+00	17274352E+02	.27132177E+02	.89081111E+00
3		AZIMUTH	201		201	22781985E-01	26106232E-03	.61447491E-02	.53623051E+00
3		ELEVATION	201		201	24269130E+00	35126028E-02	.63455691E-02	.44466307E+00
5		RANGE	169		169	10043910E+01	30318654E+02	.30106150E+02	.99397271E+00
5		AZIMUTH	194		194	.74406279E+00	.85263315E-02	.10762957E-01	.93924516E+00
5		ELEVATION	195		195	97187872E+00	14615235E-01	.13071974E-01	.78697406E+00
9		RANGE	162		162	40824539E+00	12424459E+02	.42289658E+02	.13990441E+01
9		AZIMUTH	182		182	.68074982E+00	.78008183E-02	.21417365E-01	.18690177E+01
9	FRCC	ELEVATION	182	0F	182	.30410287E+00	.35092542E-02	.15551533E-01	.10791428E+01
10		RANGE	196	0F	196	41272305E-01	12416994E+01	.22847545E+02	.76054453E+00
10	EAFC	AZIMUTH	201	OF	201	84628198E+00	96976771E-02	.25500986E-01	.22253809E+01
10	EAFC	ELEVATION	199	OF	199	.10198195E+01	.11888793E-01	.98173153E-02	.85084720E+00
15	SNFC	RANGE	148	0F	148	99522606E+00	30219590E+02	-20833987E+02	.68530486E+00
15	SNFC	AZIMUTH	174	0F	174	.27647137E+00	.31681285E-02	.53161245E-02	.46391938E+00
15	SNFC	ELEVATION	174	OF	174	71411457E+00	11131039E-01	.82618199E-02	.50839482E+00
17	PSBV	DOPPLER	55	OF	55	.20317776E+01	.60953328E+00	.12049951E+00	.40166503E+00
18	PSBN	DOPPLER	55	OF	55	26795091E+00	80385272E-01	.56403073E-01	.18801024E+00
19		DOPPLER	55	0F	55	11944688E+00	35834065E-01	.65843470E-01	.21947823E+00
20	EFFC	RANGE	255	0F	255	.10032791E+00	.30836247E+01	.36044036E+02	.11943508E+01
20		AZIMUTH	277	OF	277	.27572593E+00	.31595864E-02	.18922442E-01	.16512945E+01
20	EFFC	ELEVATION	277	0F	277	.26975904E+00	.25759168E-02	.12261990E-01	.99148876E+00

TOTAL WEIGHTED FIT STATISTICS--- NOBS = 4849 WGT. NEAN = -.91742587E-01 WGT. STD. DEV. = .11978897E+01

TABLE III. STS-8 residual summary.

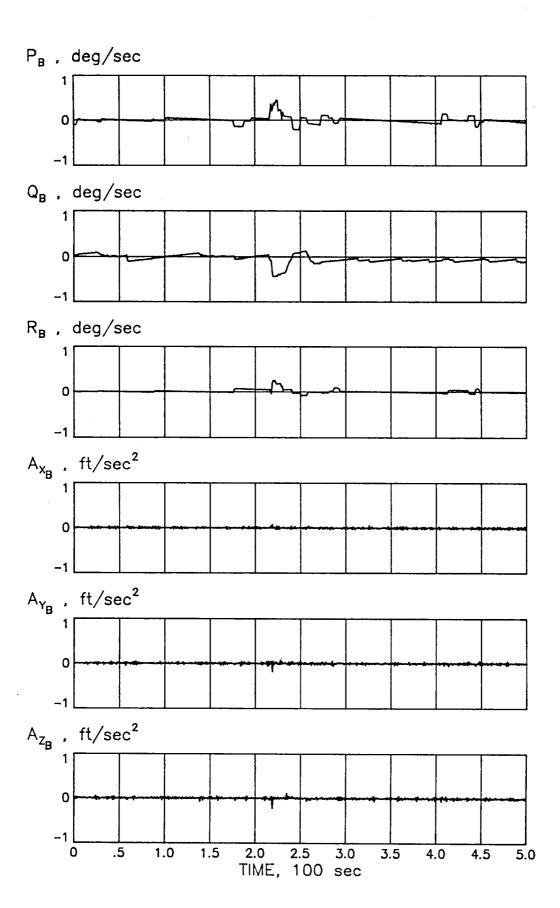


Figure 1. STS-8 Dynamic data , IMU 2.

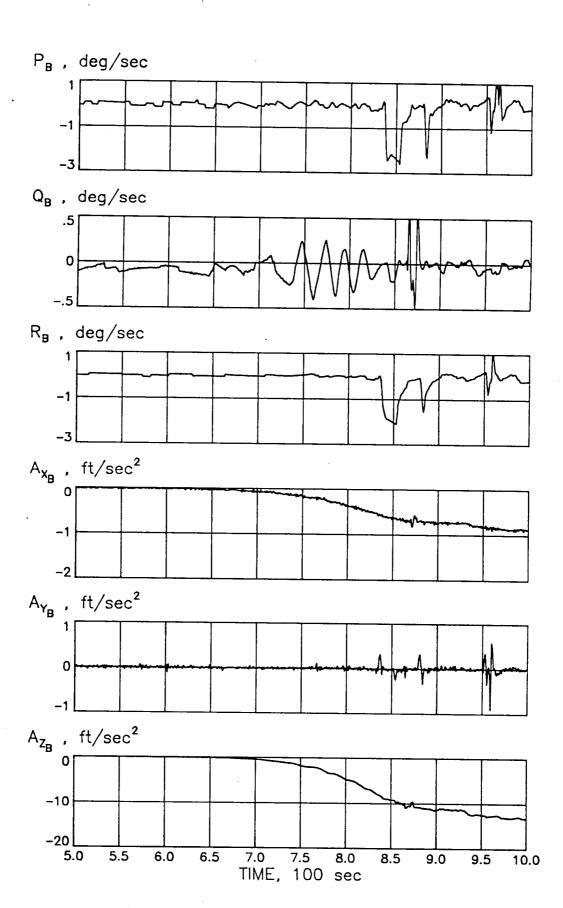


Figure 1. (continued)

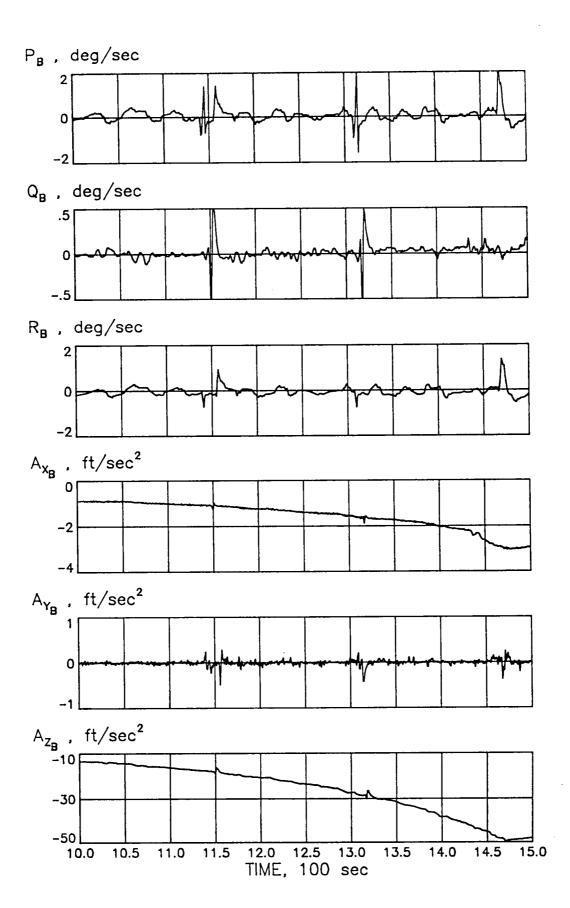


Figure 1. (continued)

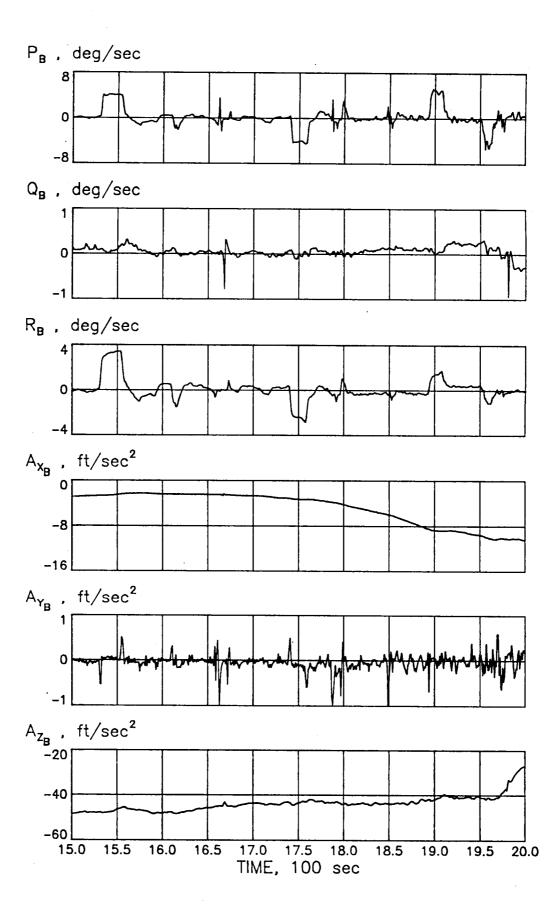


Figure 1. (continued)

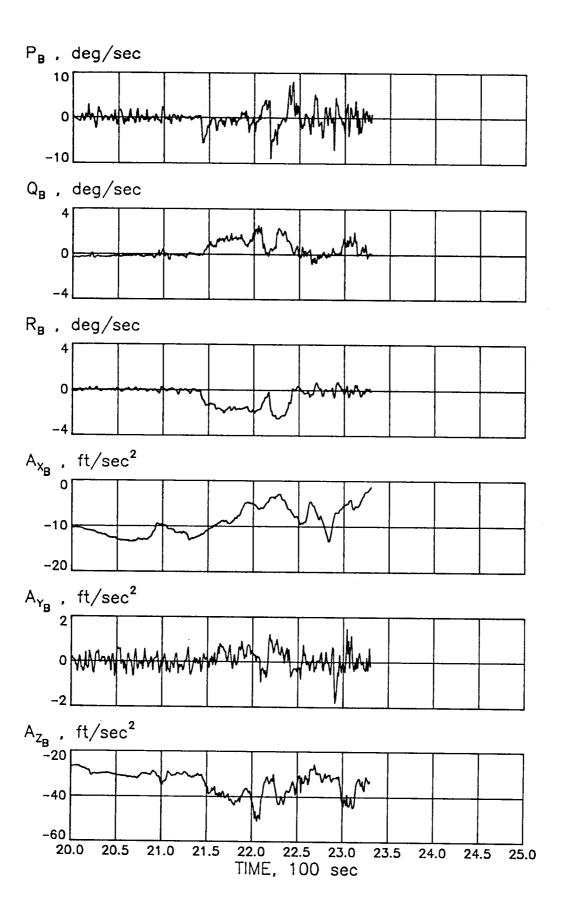


Figure 1. (concluded)

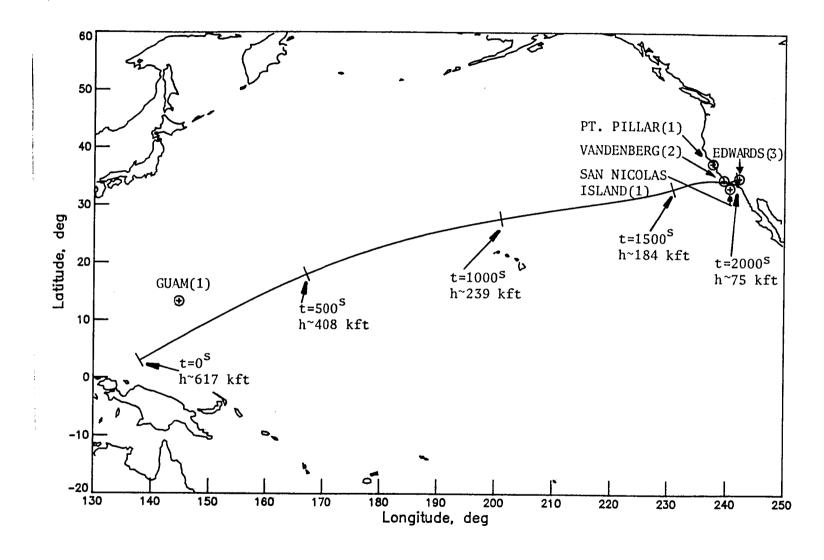
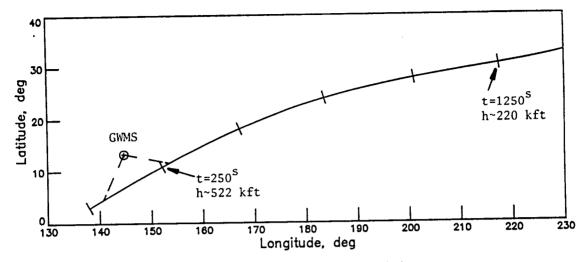
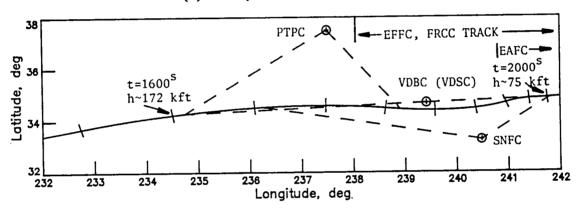


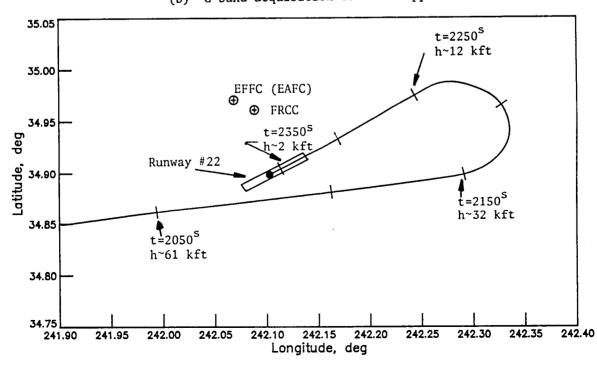
Figure 2. STS-8 ground track from epoch to touchdown.



(a) Entry to C-band acquisition



(b) C-band acquisition to final approach



(c) Final approach and landing

Figure 3. Detailed tracking coverage for STS-8.

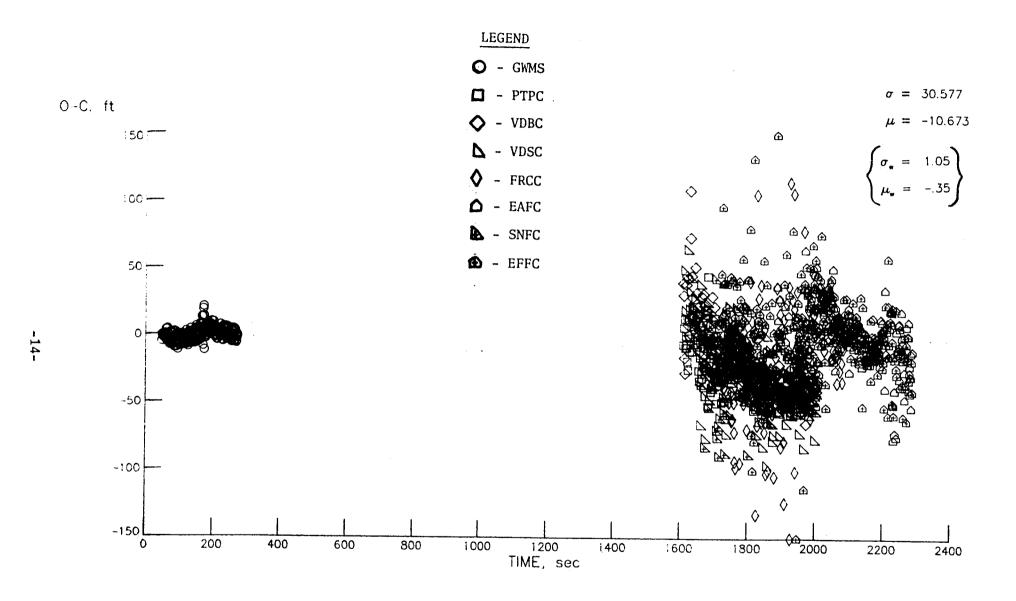


Figure 4. STS-8 composite range residuals.

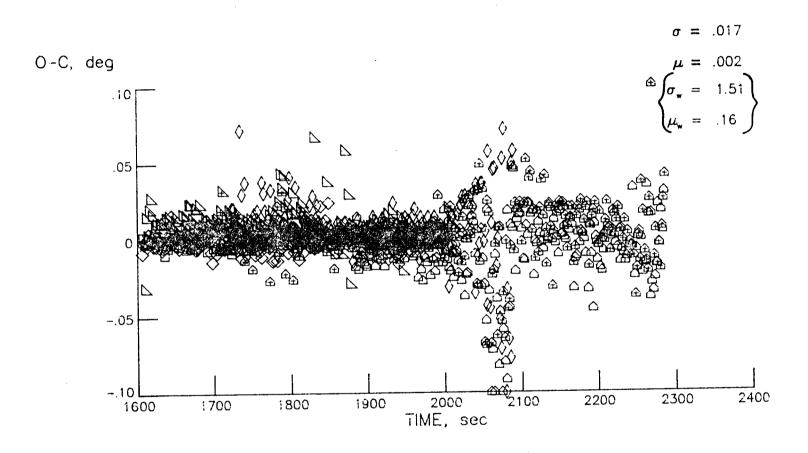


Figure 5. STS-8 composite azimuth residuals.

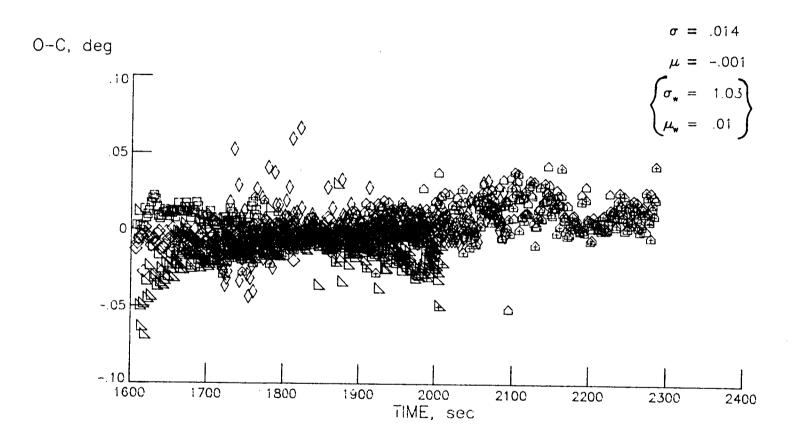


Figure 6. STS-8 composite elevation residuals.

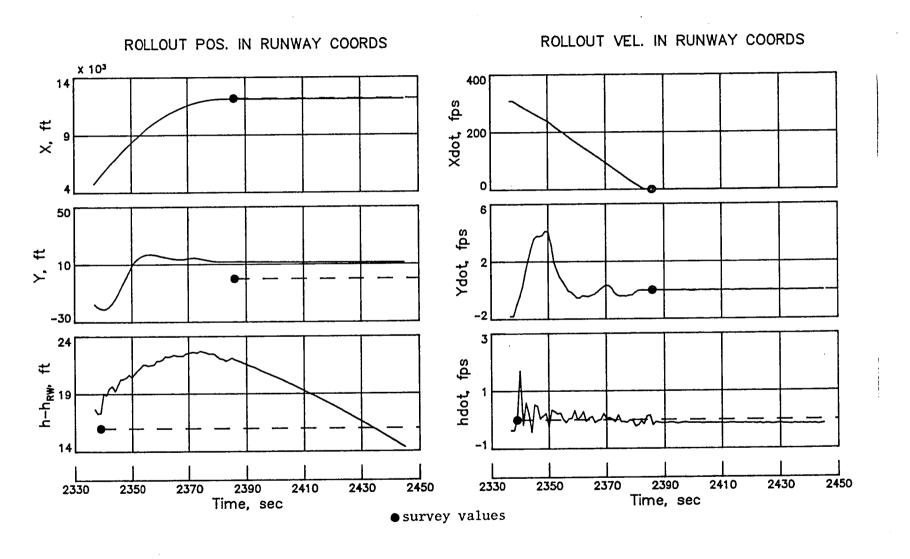


Figure 7. Rollout position and velocity plots for STS-8.

II. Extended BET

The Extended BET, STS8BET under user catalog 274885C, was developed by merging the previously discussed inertial trajectory (BET8T06) and the revised LAIRS file, LAIRJ8. The revised LAIRS file is the Langley developed STS8MET/UN=712662N, with jimsphere winds below ~55 kft. Separately, density and wind evaluations were performed. The former simply involved comparison of the LAIRS density with a representative variation suggested by the various soundings launched in support of the mission. This included four Barking Sands, Hawaii and two Pt. Mugu, California firings. The Hawaiian soundings consisted of two ROBIN spheres and two thermistors. One of each was deployed from Pt. Mugu on the day of entry. All soundings agreed to approximately ± 5 percent. It is noteworthy that seven additional Pt. Mugu soundings, two launched on 8/30, three on 9/1, and two on 9/3, also showed virtually the same agreement. Figure 8 shows a composite density plot used to evaluate the LAIRS profile. Shown are the LAIRS density (ratioed to the '76 Standard), the measurement spread previously discussed (as the dashed lines), and the derived density based on the measured normal acceleration and the predicted normal force coefficient. Also shown thereon is the NOAA profile extracted from the JSC BET. Certainly no major systematic differences are suggested. A rather sharp, erratic, signature is seen in the C_{N} derived density. Based on a recent analysis (1), if one assumes such density to be real, convectively unstable air masses are suggested in very local regions, namely h~245 kft and $h\sim235$ kft. Though these preliminary results are interesting, more research is required in this area.

Figures 9 through 12 depict the LAIRJ8 data versus altitude, units changed to conform to those adopted for the BET. Figure 9 shows the temperature profile. Pressure and density profiles are given in Figs. 10 and 11, respectively. Finally, winds are presented as Figure 12. The subsonic winds shown thereon (h<55 kft) are jimsphere measurements based on a balloon deployed 15 minutes after landing. Evidence supporting the need for wind replacement is described below.

Alternate wind measurements used for subsonic wind evaluation were available from three jimsphere balloons deployed over an approximate four(4) hour interval. Figure 13 shows a composite of the measured winds, jimsphere

⁽¹⁾ Findlay, J. T., Kelly, G. M., McConnell, J. G., Compton, H. R., "Shuttle 'Challenger' Aerodynamic Performance From Flight Data - Comparisons with Predicted Values and 'Columbia' Experience," AIAA Paper No. 84-0485, to be presented January 1984.

and rawinsonde, in both magnitude and direction. As shown, very large differences between the rawinsonde and jimsphere measurements exist over the altitude range 22 kft<h<32 kft. The large differences have since been attributed to very erratic rawinsonde wind measurements used as inputs to LAIRS. Subject to additional verification via the Rockwell ADS file, a revised LAIRS file (LAIRJ8) was developed by replacing rawinsonde winds below 54,750 feet with winds obtained from the most timely jimsphere balloon, launched ~15 minutes after touchdown. The revised LAIRS file also incorporates the measured surface winds at touchdown, 10 fps from 210°, which were obtained from D. Richardson, AFFTC. Estimated winds, batch and deterministic, obtained from the Rockwell post-flight calibrated ADS file are shown together with the rawinsonde and most timely jimsphere winds as Figure 14. Particularly in the altitude region of concern, the estimated winds are in good agreement with the jimsphere measurements. Therefore, the revised LAIRS file LAIRJ8 was adopted as the atmospheric file for STS-8.

Figure 8. STS-8 density comparisons.

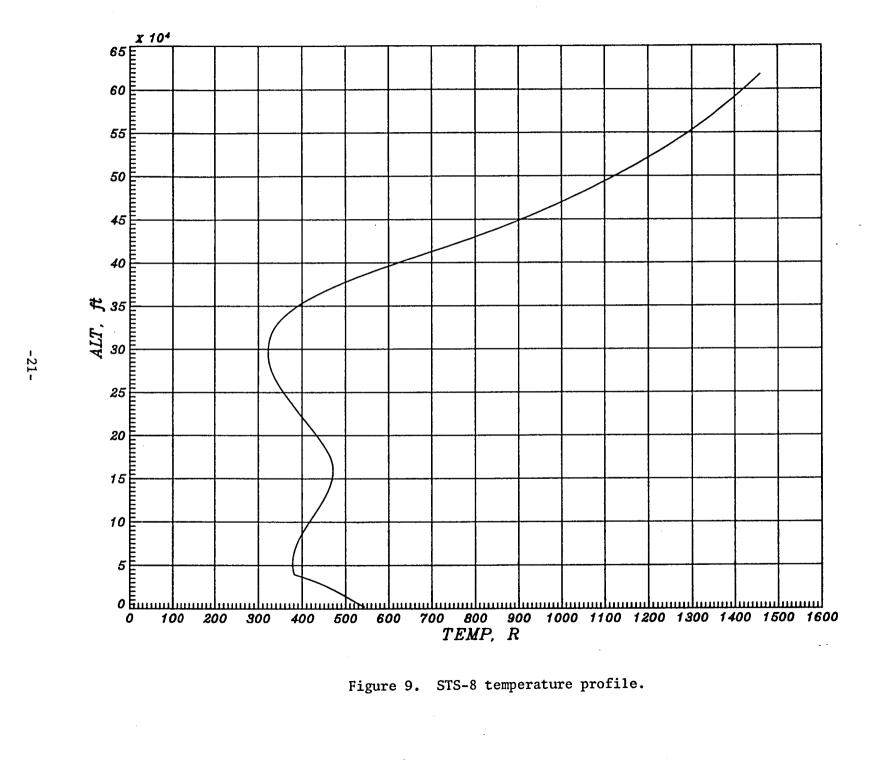


Figure 10. STS-8 pressure profile.

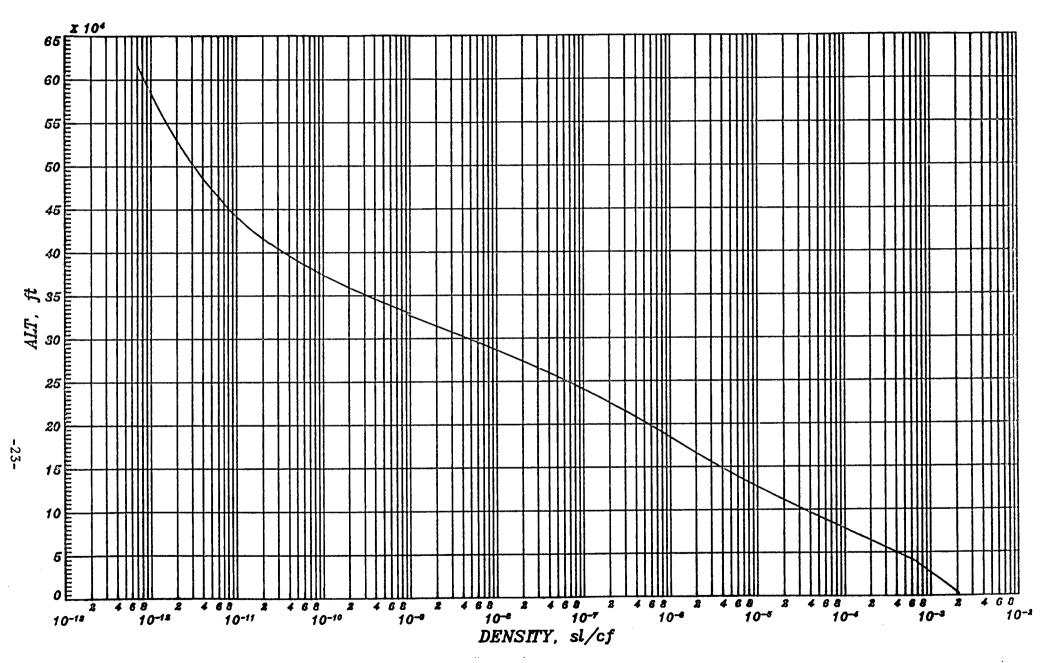


Figure 11. STS-8 density profile.

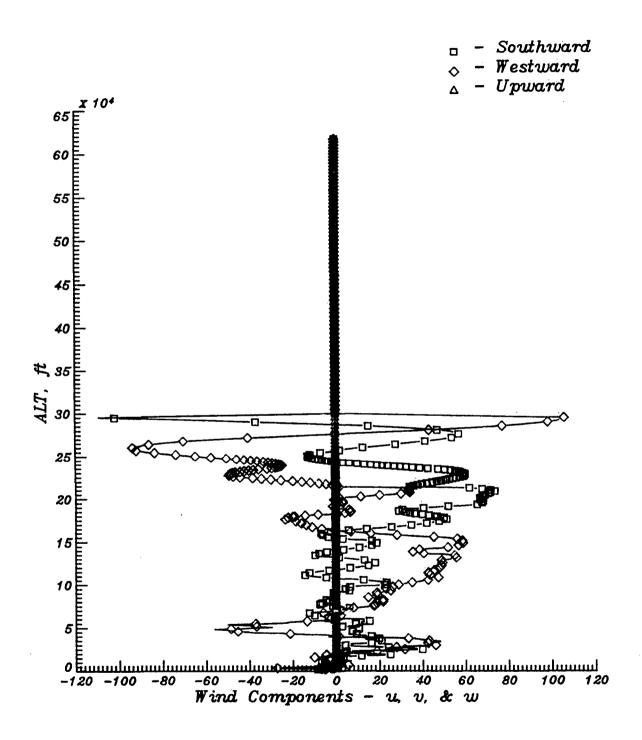
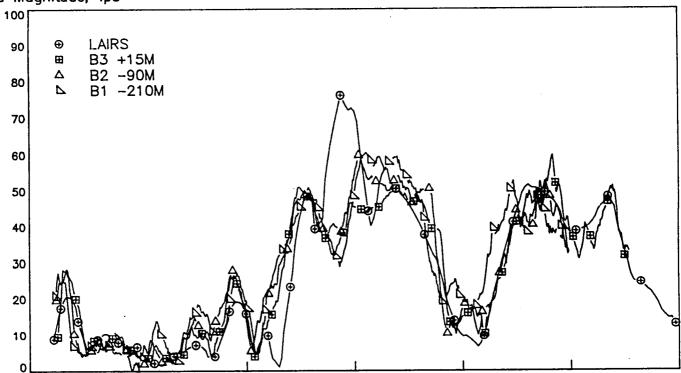
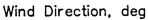


Figure 12. STS-8 atmospheric winds versus altitude.







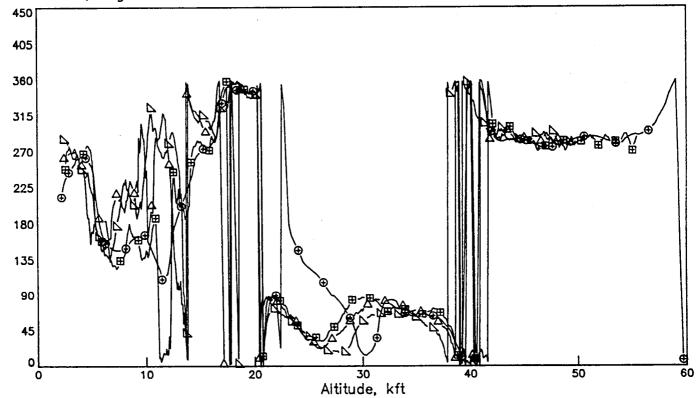
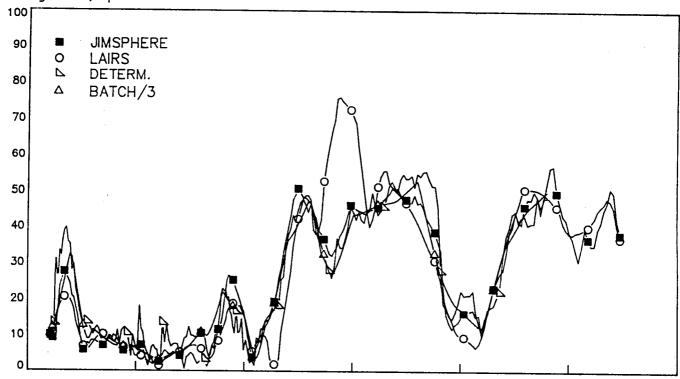


Fig. 13. STS-8 Rawinsonde (LAIRS) and Jimsphere Winds.





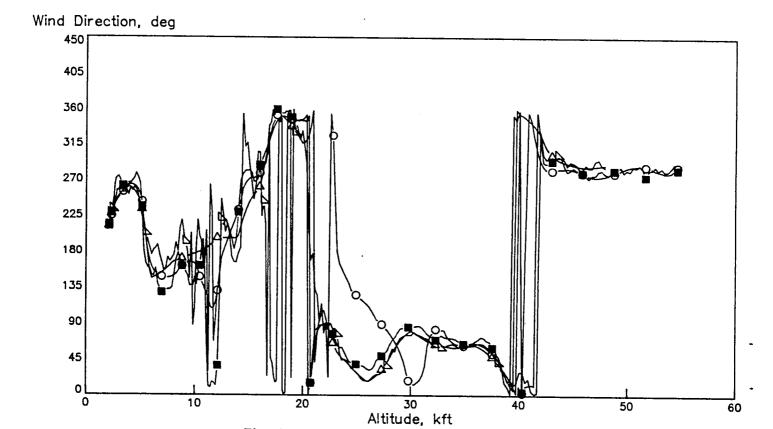


Fig. 14. STS-8 Measured and Derived Winds

III. AEROBET development

The STS-8 AEROBET is completed and the results are on NX0483. Reel NX0484 is provided for back-up purposes. The AEROBET was developed by merging STS8BET (which includes the LAIRJ8 atmosphere) with the recorded OI data to enable predicts generation for the LaRC version of the Orbiter data base. The recorded OI data, thinned to 1 Hz to conform to BET times, is on NX0479. This file defines spacecraft control surface deflections and reaction jet activity. Spacecraft mass properties are given in Appendix A, Table A-3. The remainder of this Section presents plots of most of the relevant parameters on the AEROBET for future analyses.

Figure 15 shows the altitude time history. Altitude rate, dynamic pressure, and Mach number are plotted versus both time and altitude in Figures 16, 17, and 18, respectively. Figure 19 presents the hypersonic viscous parameter versus altitude over the region, 180 kft<h<300 kft. Air relative attitude angles $(\alpha, \beta,$ and $\sigma)$ are presented versus time (Figure 20), Mach (Figure 21), and altitude (Figure 22). Spacecraft dynamics, body axes rates and accelerations derived from IMU2, are presented versus Mach and altitude as Figures 23 and 24, respectively. Control surface deflections are presented versus time, Mach, and altitude in Figures 25-27. RCS jet activity is plotted versus these same three variables in Figures 28, 29, and 30.

Data base comparisons are next presented. Figures 31a and 31b show L/D comparisons during the hypersonic region and below Mach 2, respectively. Here, flight and predicted values are plotted with variations superimposed. Figures 32 (a and b) are plots of these same data versus altitude over the respective Mach regions. Similarly, lift and drag comparisons (flight, predicts, and variations) versus both Mach and altitude are presented. The lift results are given as Figures 33 (a and b) and 34 (a and b) versus Mach and altitude, respectively. Drag comparisons are presented in Figures 35a through 36b.

Percentage equivalents of the above presented comparisons are next shown. Figures 37a and 37b show ΔC_L , ΔC_D , and $\Delta L/D$ versus Mach, using the definition of ((flight-data base)/flight). Superimposed on these figures are the ensemble Columbia comparisons. Percentage errors are shown versus altitude as Figures 38a and 38b. Figure 38a shows the hypersonic region

down to Mach 2. Figure 38b depicts percentage comparisons for altitudes between Mach 2 and landing.

The final figure is the pitching moment comparison versus Mach no. (see Fig. 39). These results are with respect to the flight c.g. and again reflect the large, real gas, offset.



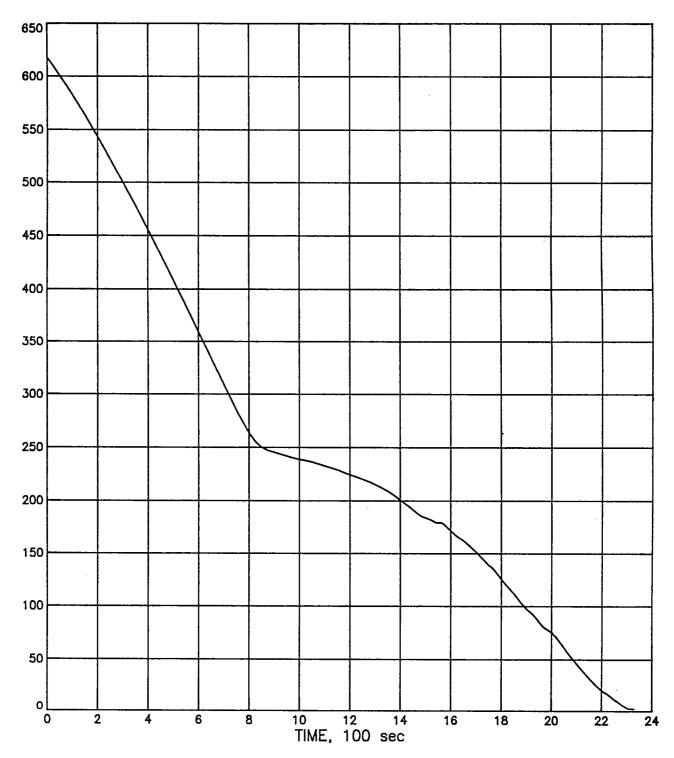
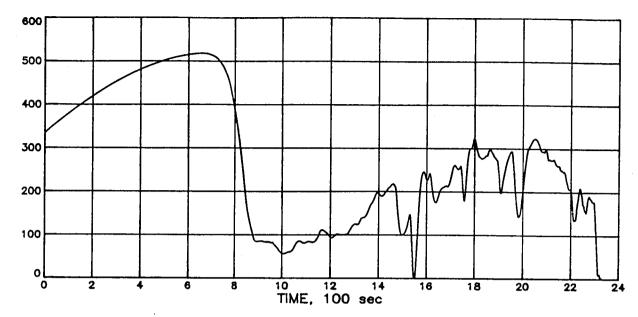


Figure 15. STS-8 altitude time history.

-30-



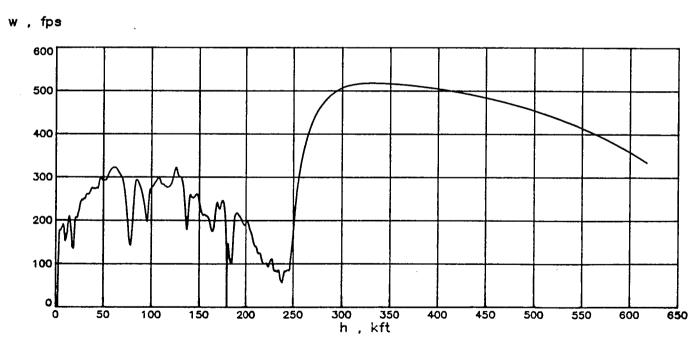
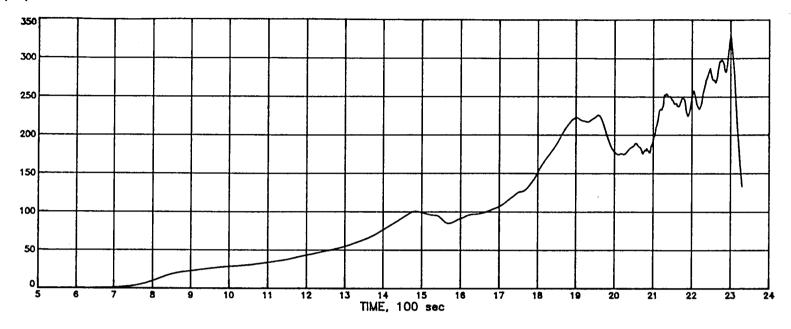


Figure 16. STS-8 descent rate ($\mathring{h}=-w$) versus time and altitude.





q , psf

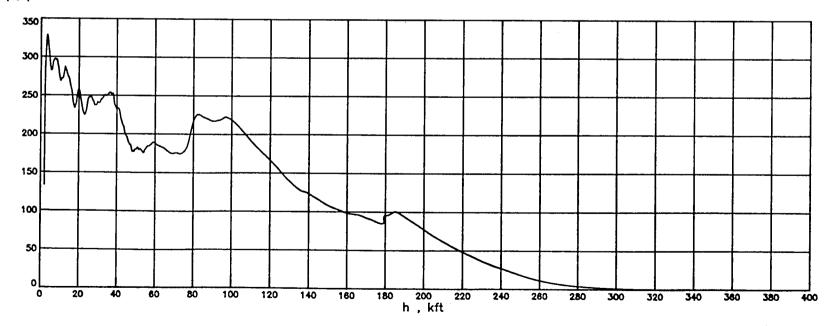
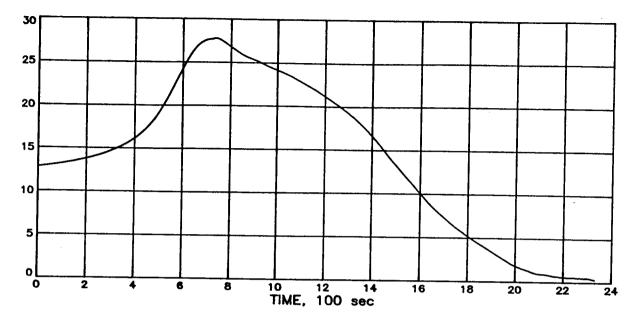


Figure 17. STS-8 dynamic pressure versus time and altitude.



Mach

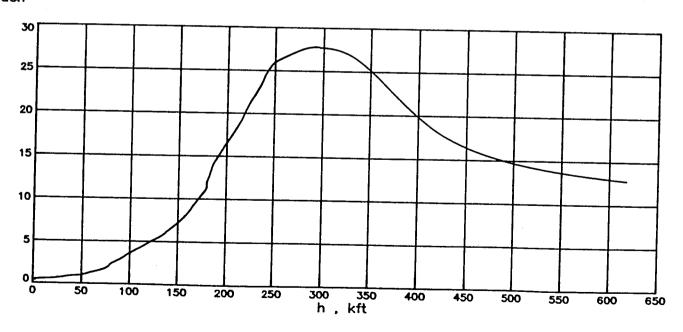


Figure 18. STS-8 Mach number versus time and altitude.

32-

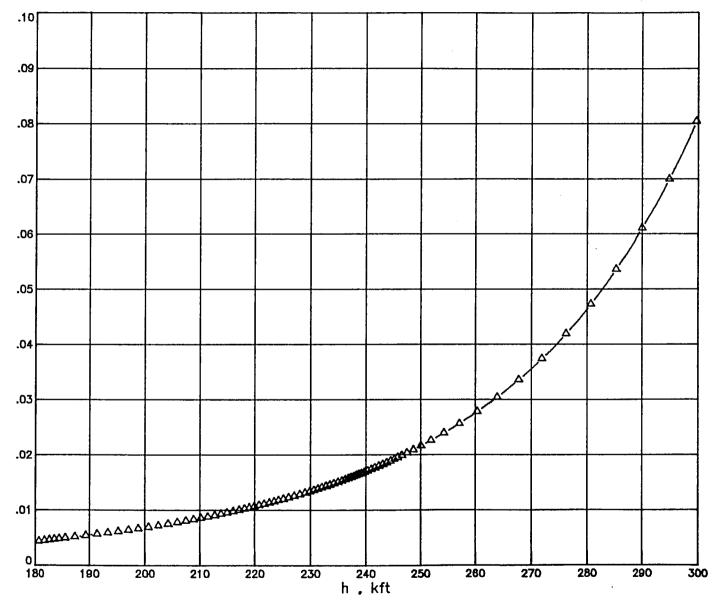


Figure 19. STS-8 Vbar versus altitude.

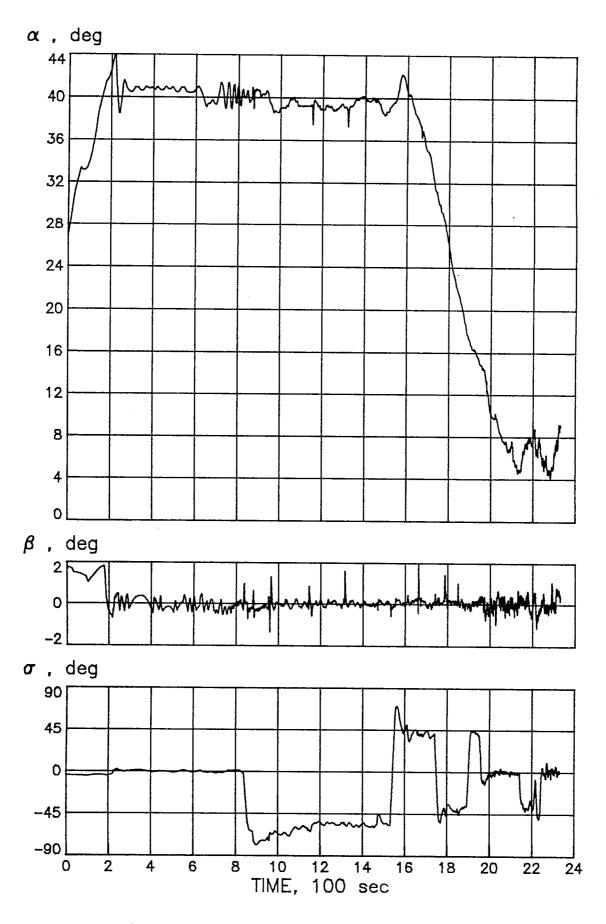


Figure 20. STS-8 α , β and σ vs. time.

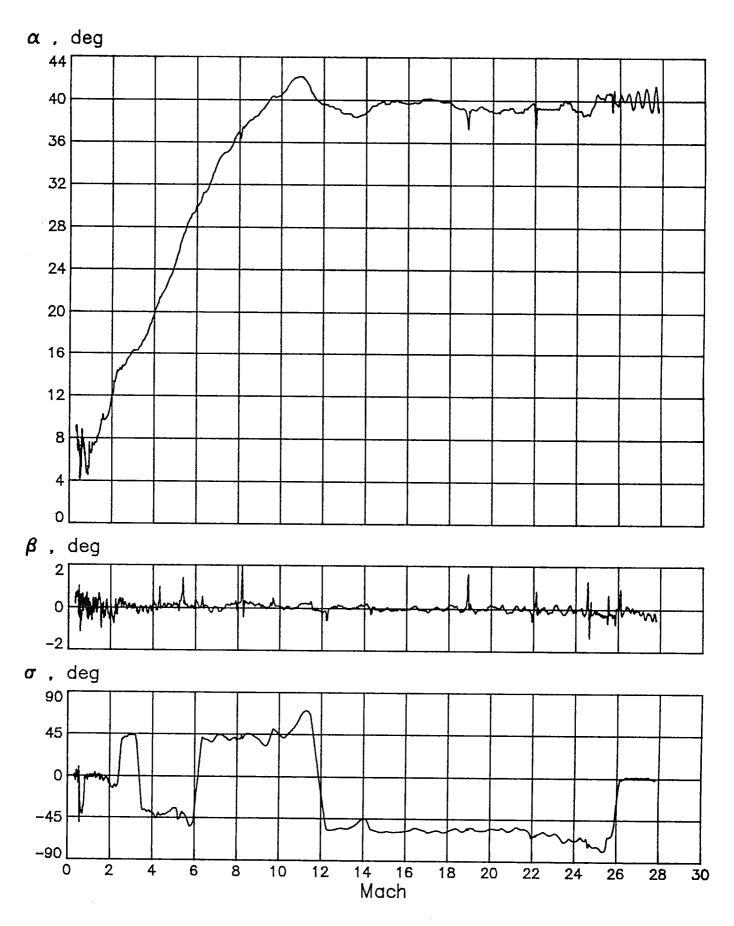


Figure 21. STS-8 α , β and σ vs. Mach.

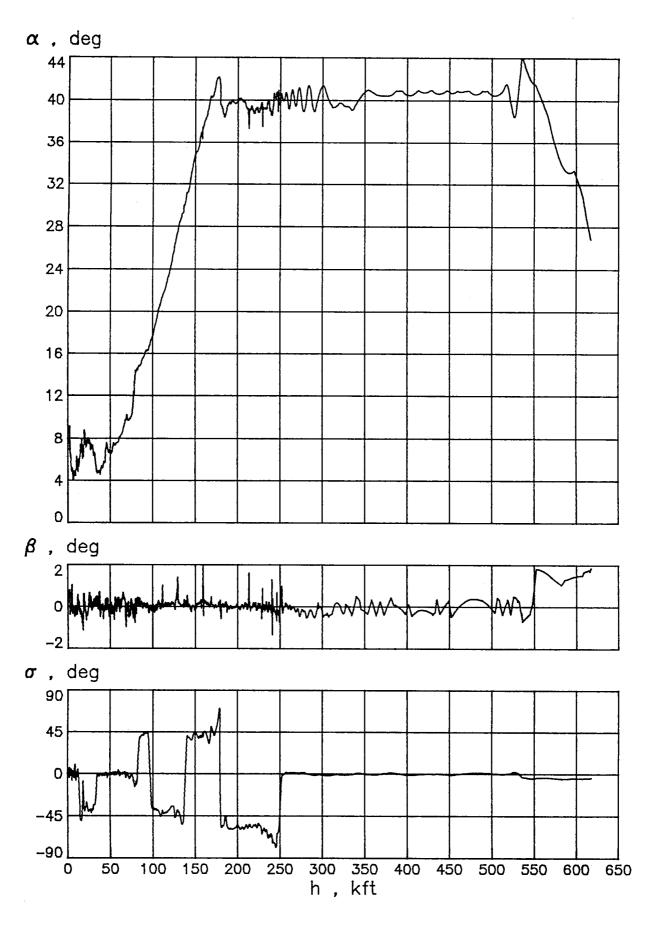


Figure 22. STS-8 α , β and σ vs. h,

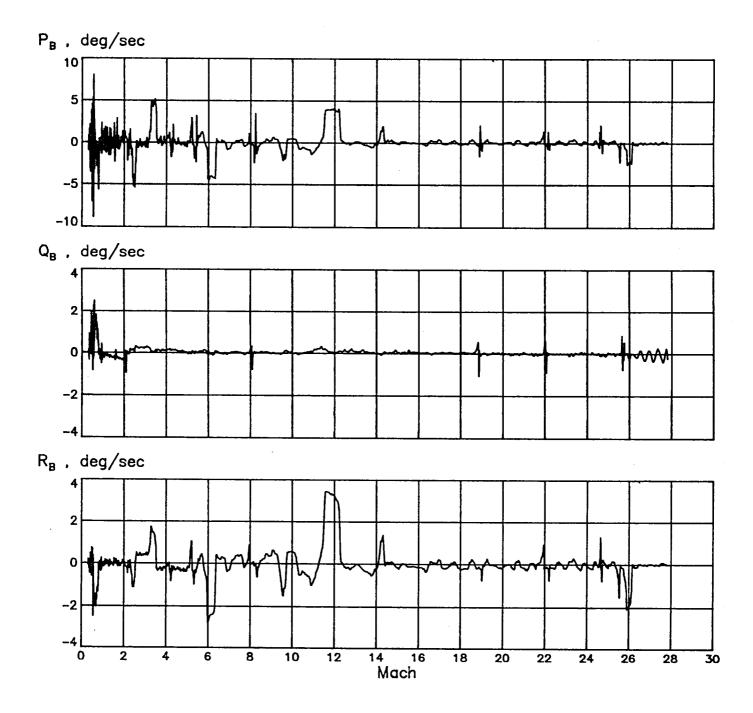


Figure 23. STS-8 dynamic data vs. Mach.

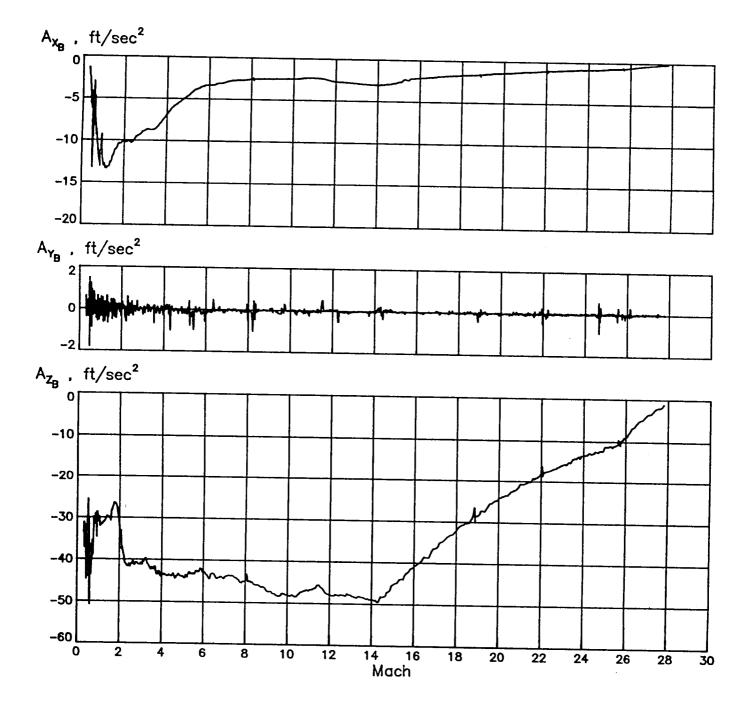


Figure 23. (concluded)

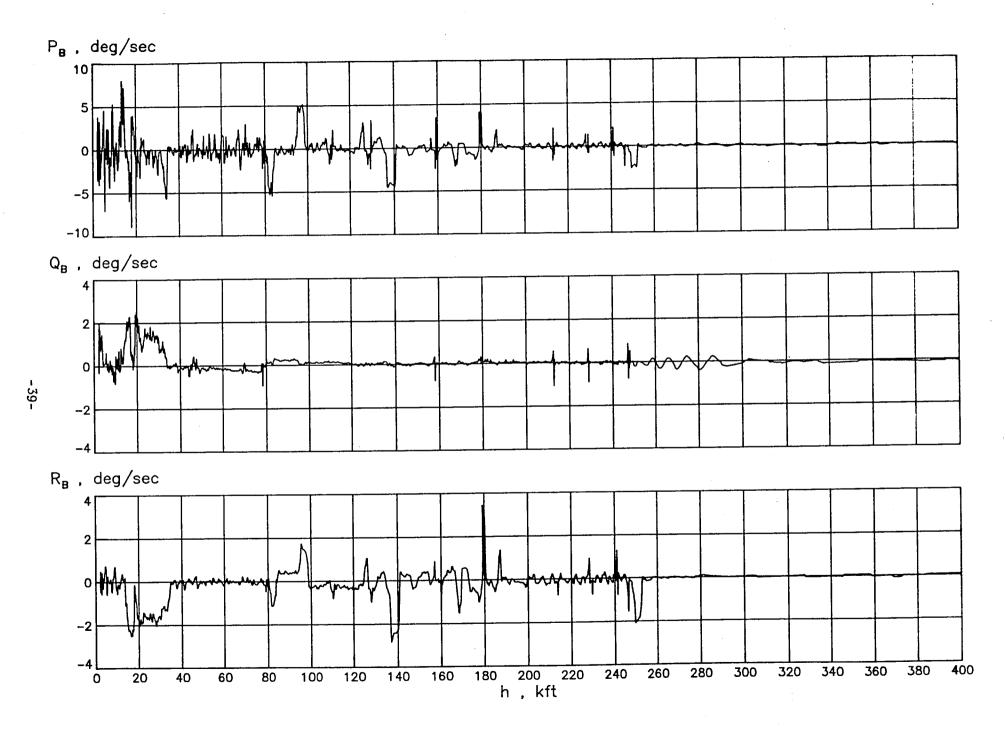


Figure 24. STS-8 dynamic data vs. altitude,

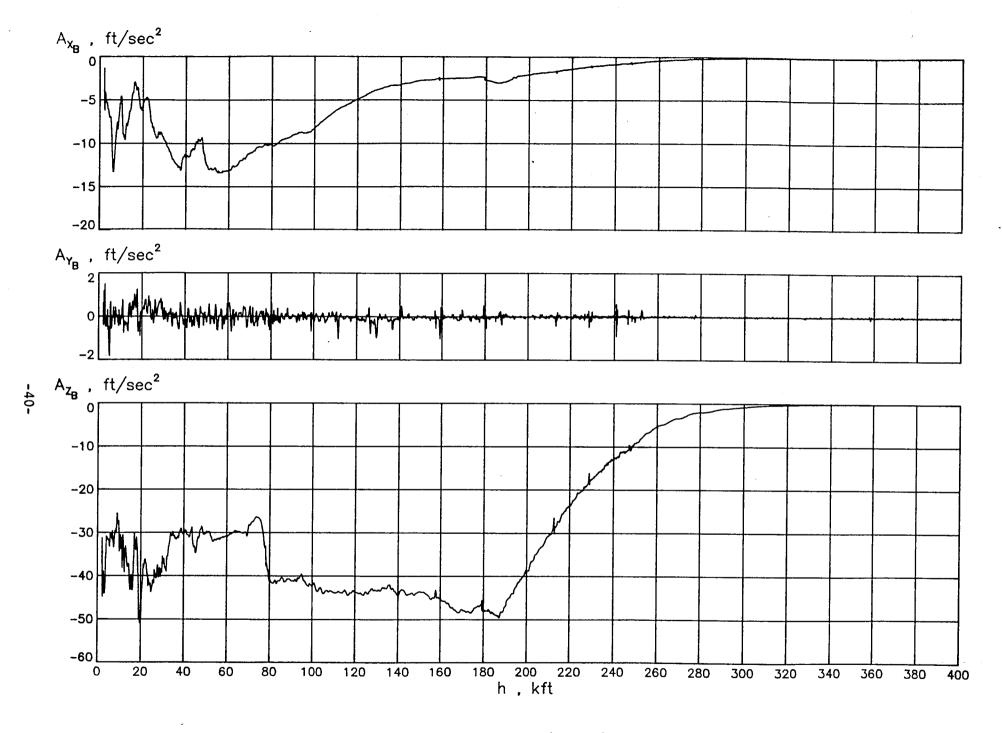


Figure 24. (concluded)

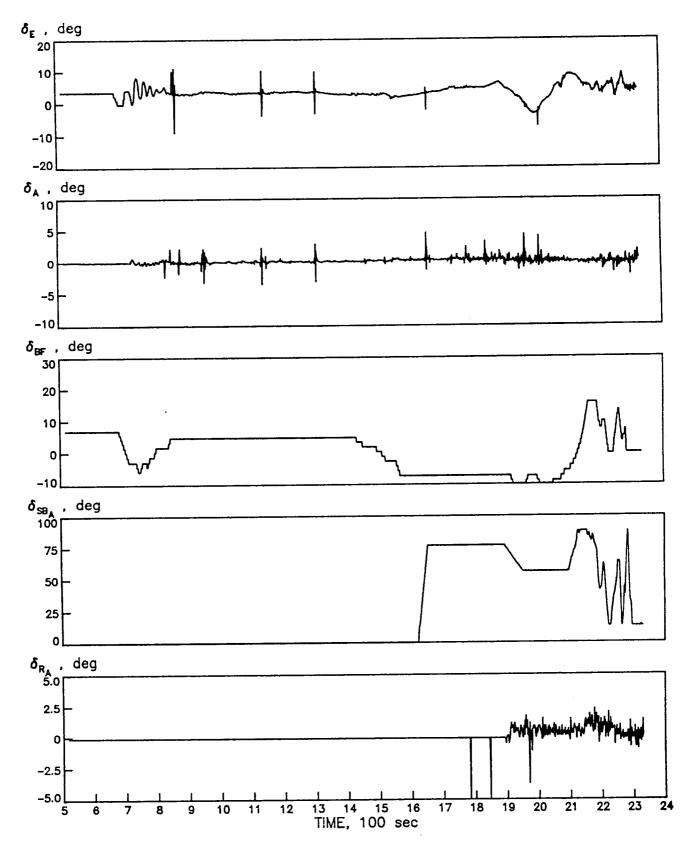


Figure 25. STS-8 control surfaces vs. time.

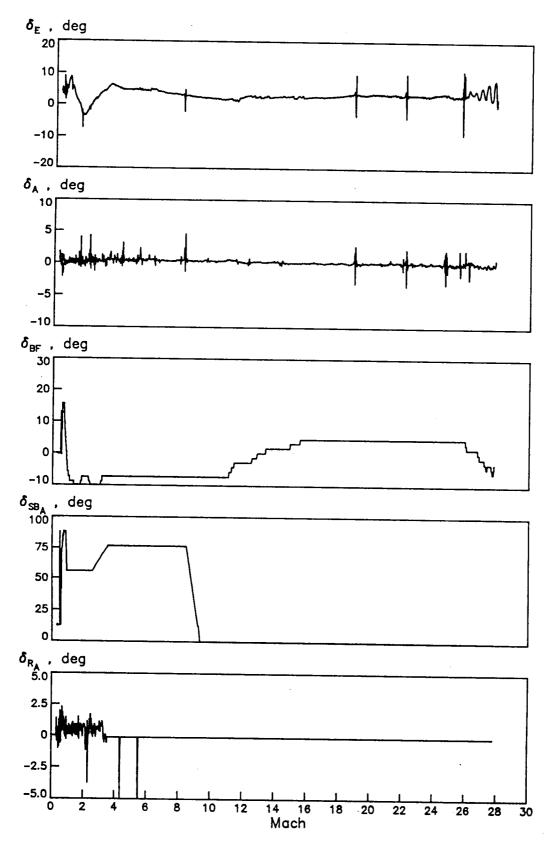


Figure 26. STS-8 control surfaces vs. Mach.

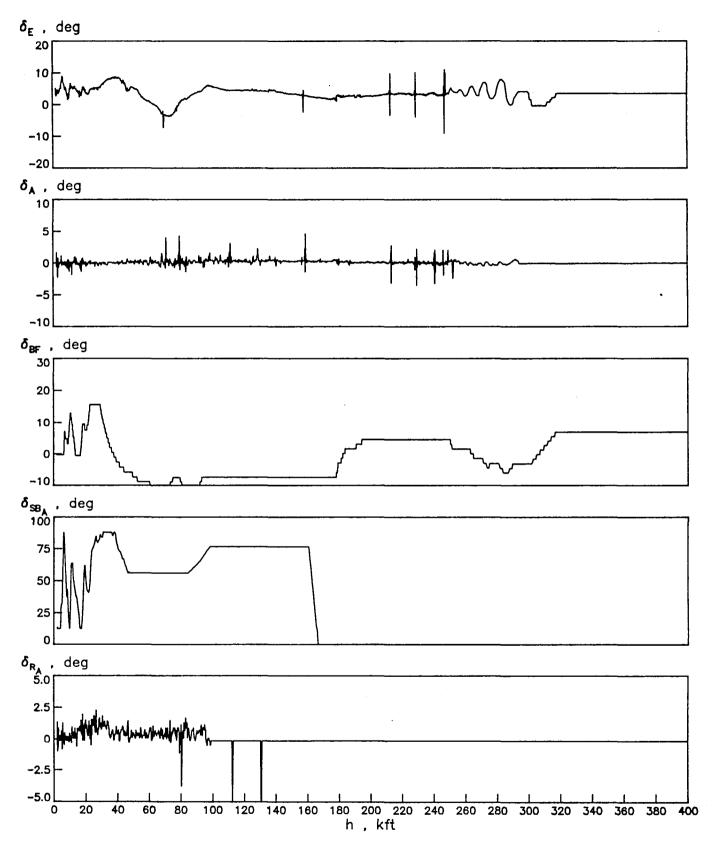


Figure 27. STS-8 control surfaces vs. altitude.

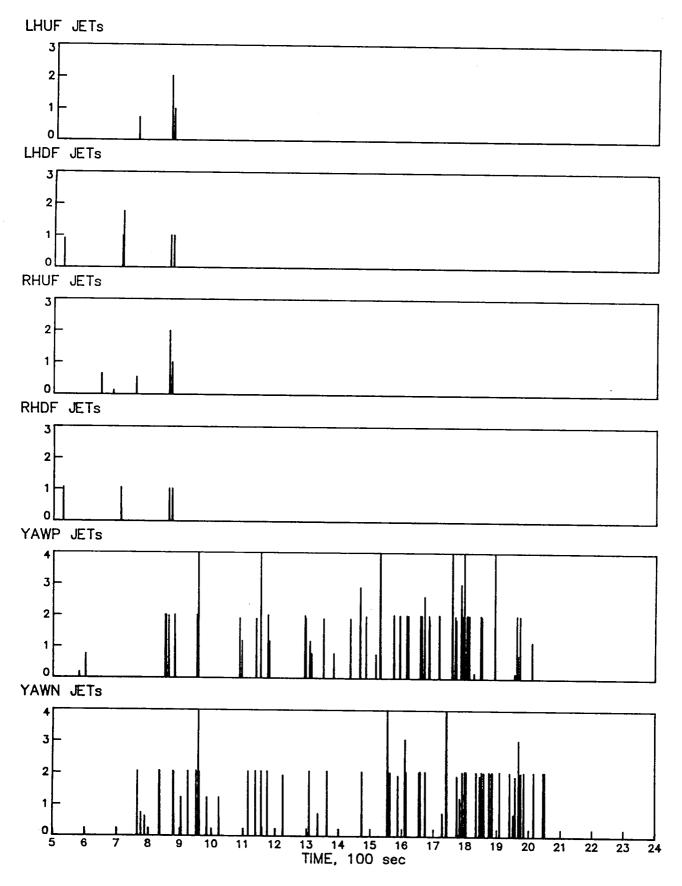


Figure 28. STS-8 RCS firings vs. time.

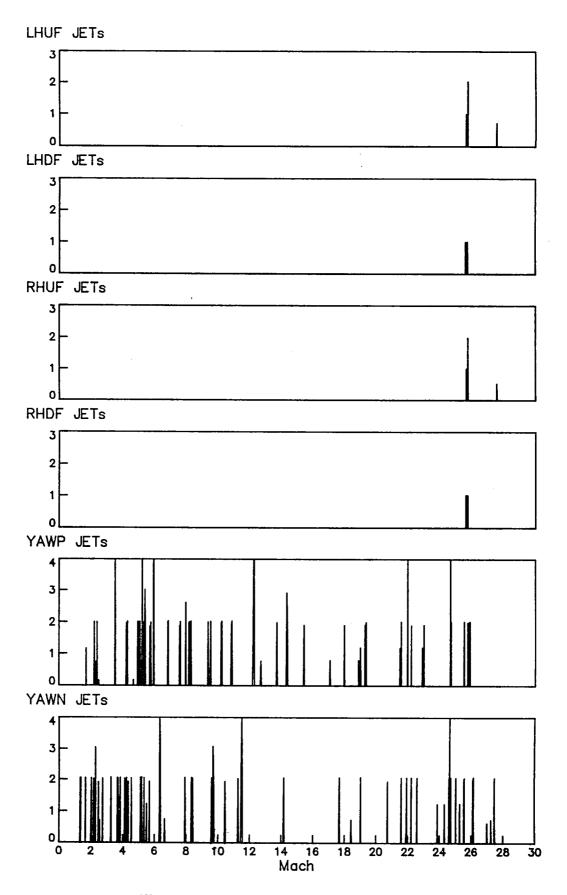


Figure 29. STS-8 RCS firings vs. Mach.

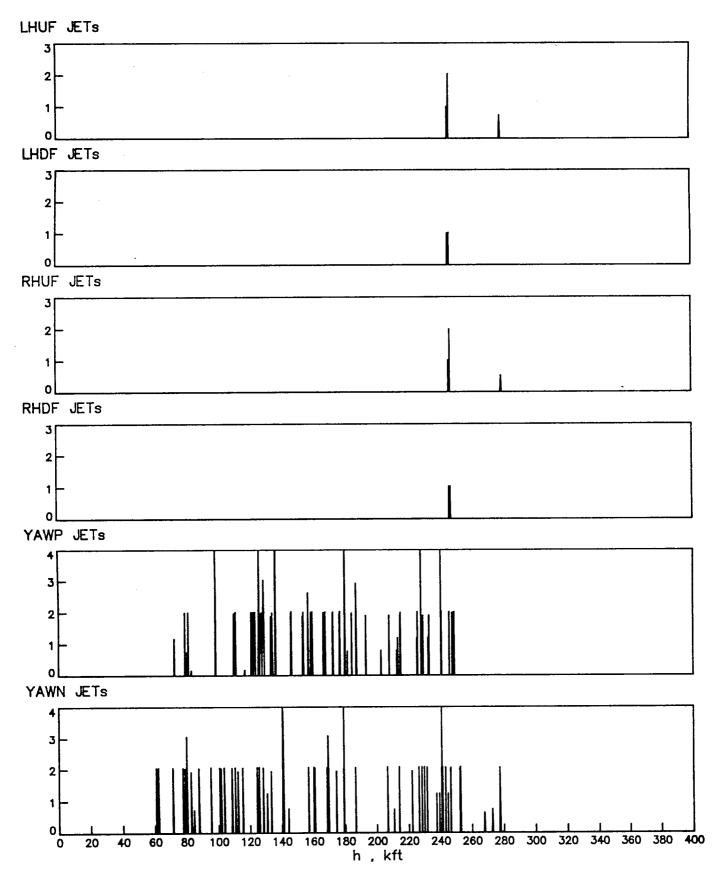


Figure 30. STS-8 RCS firings vs. altitude.

Figure 31a. STS-8 L/D comparisons vs. Mach.

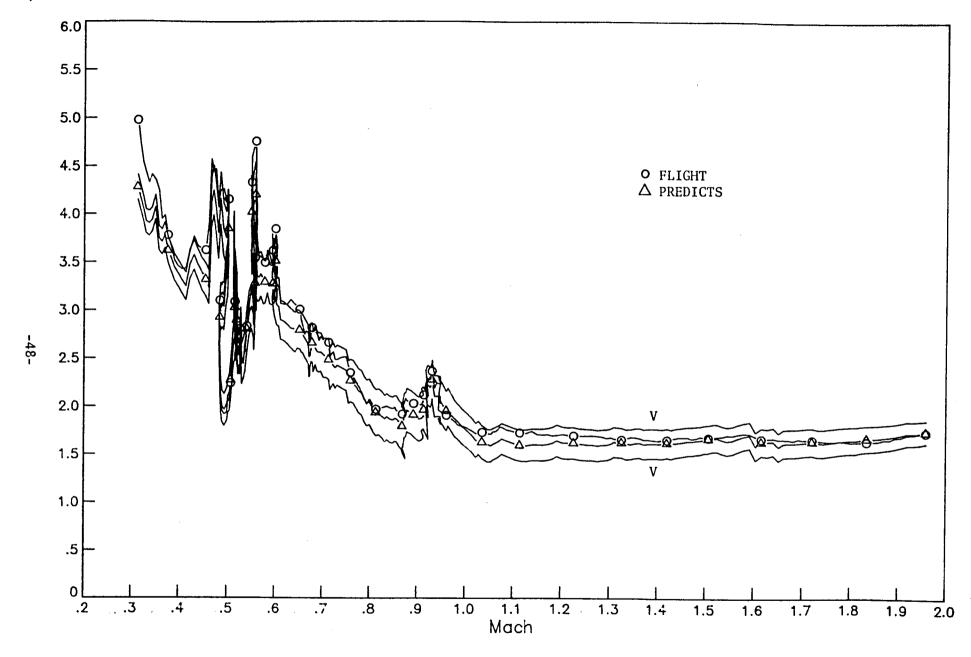


Figure 31b. STS-8 L/D comparisons vs. Mach.

, ,

Figure 32a. \$TS-8 L/D comparisons vs. altitude.



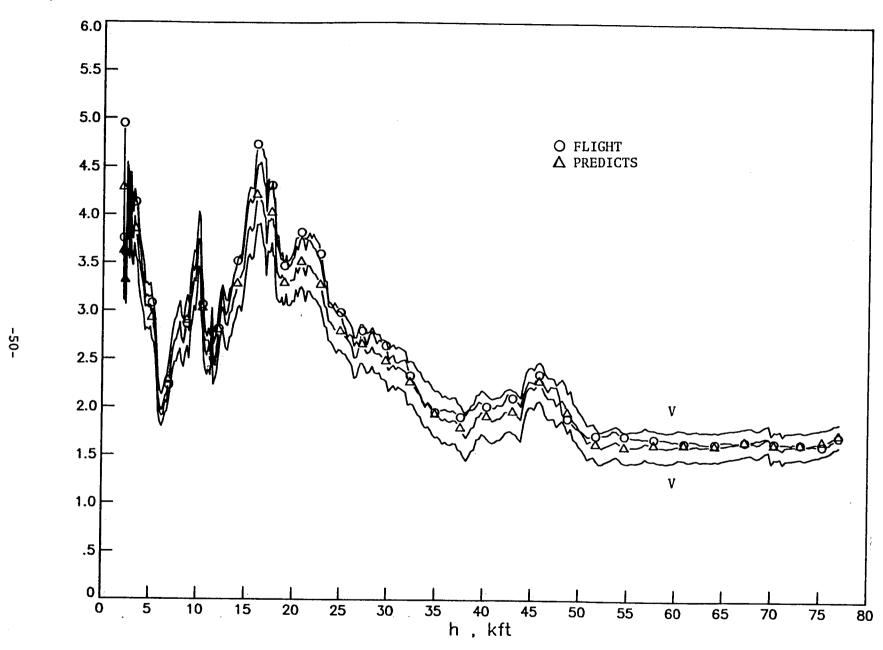


Figure 32b. STS-8 L/D comparisons vs. altitude.

Figure 33a. STS-8 lift comparisons vs. Mach.

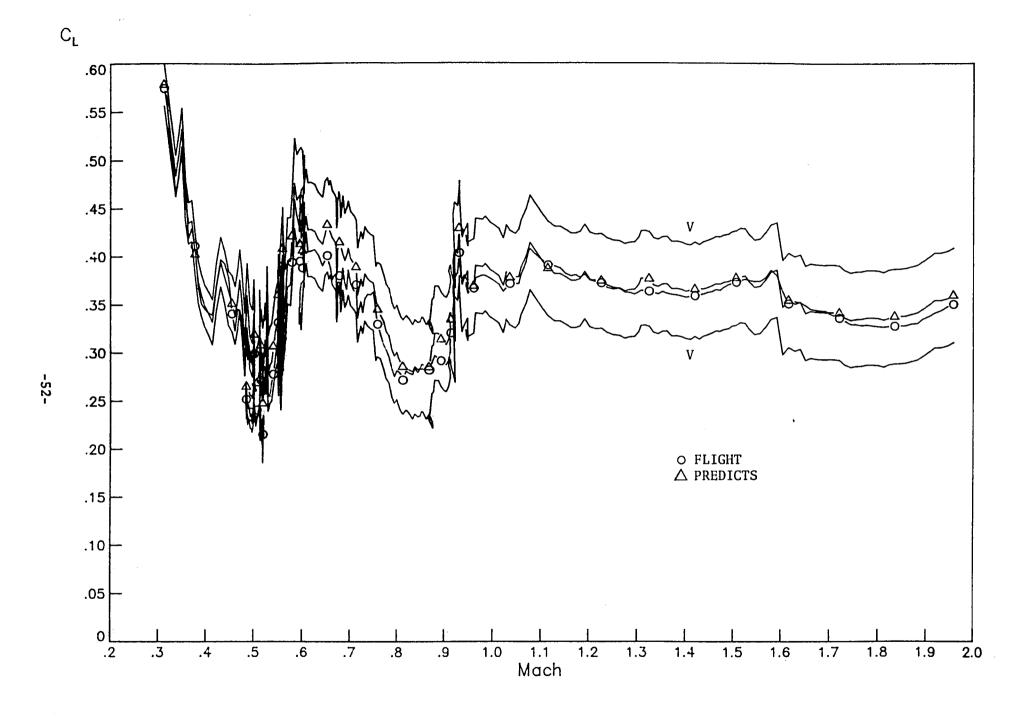


Figure 33b. STS-8 lift comparisons vs. Mach.

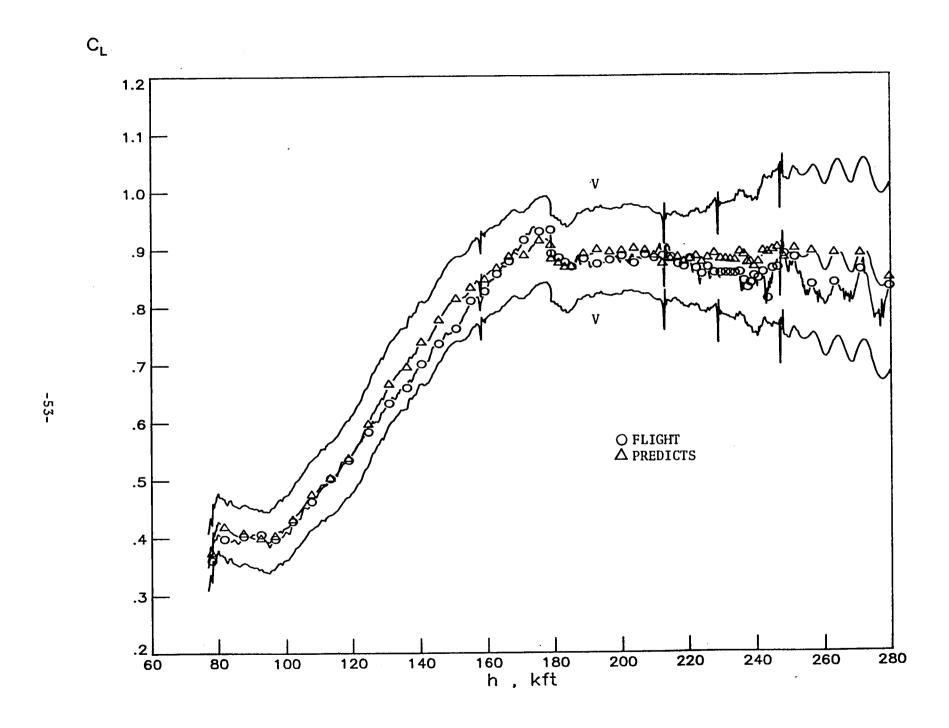


Figure 34a. STS-8 lift comparisons vs. altitude.

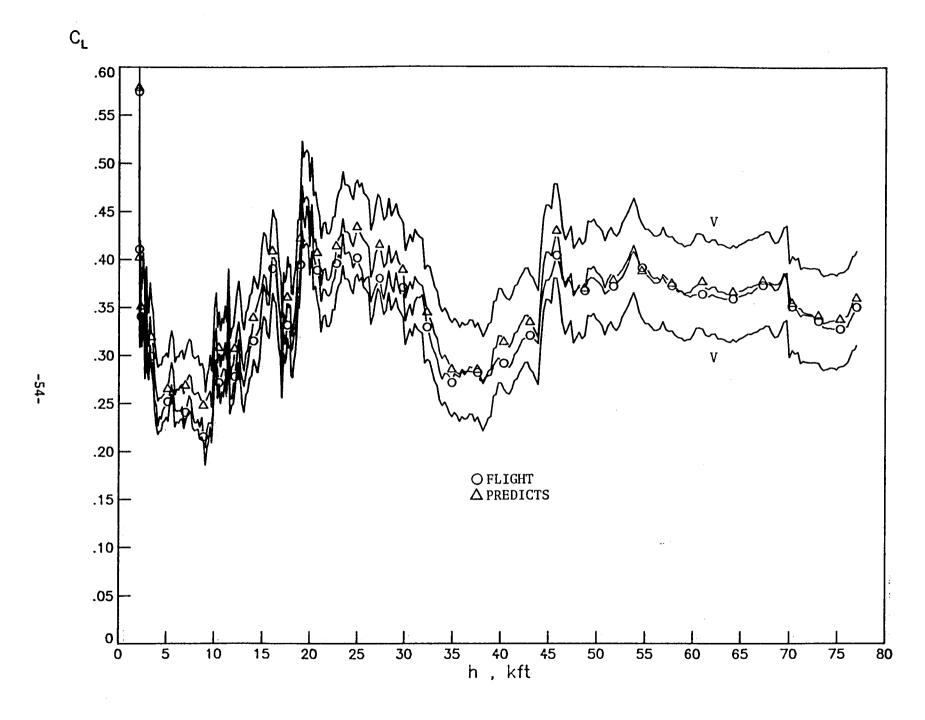


Figure 34b. STS-8 lift comparisons vs. altitude.

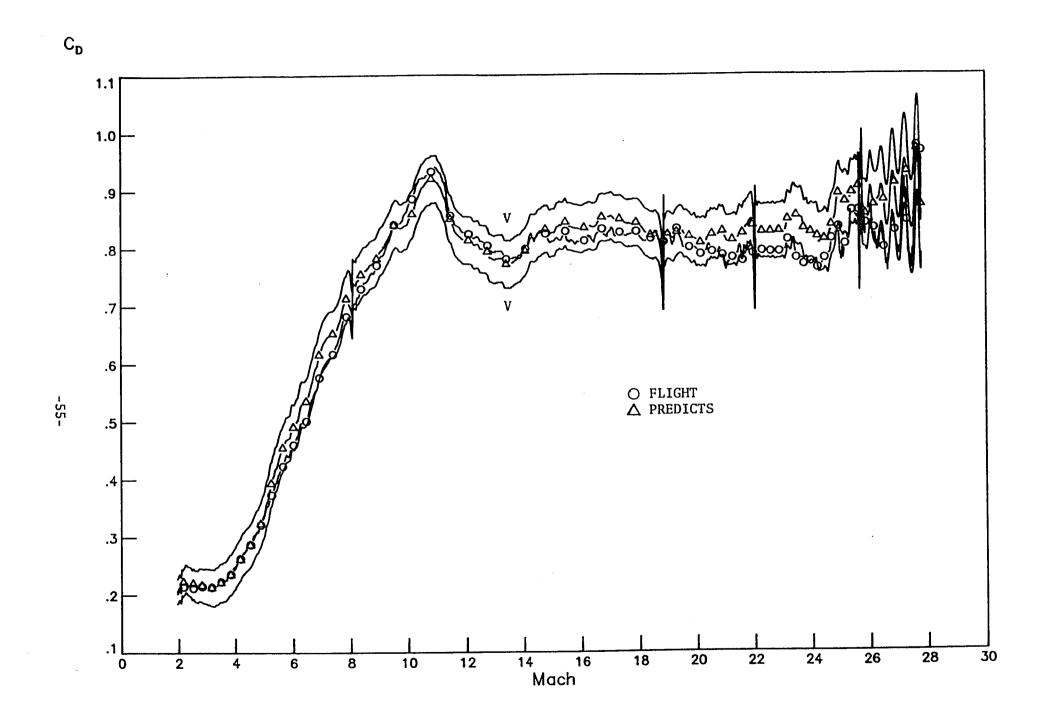


Figure 35a. STS-8 drag comparisons vs. Mach.

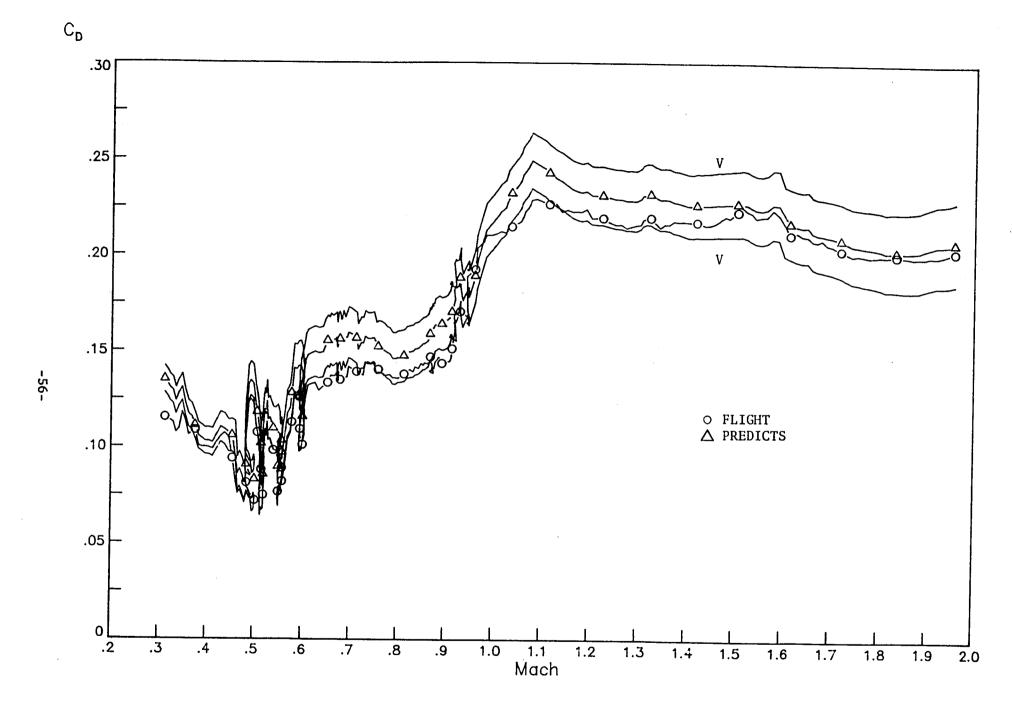


Figure 35b. STS-8 drag comparisons vs. Mach.

Figure 36a. STS-8 drag comparisons vs. altitude.

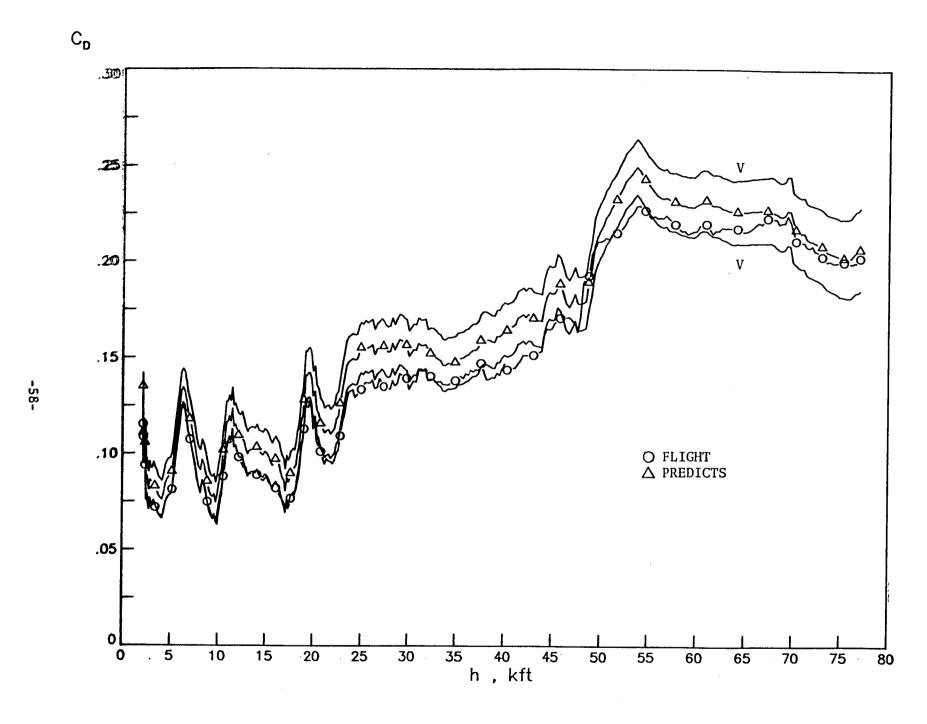


Figure 36b. STS-8 drag comparisons vs. altitude.

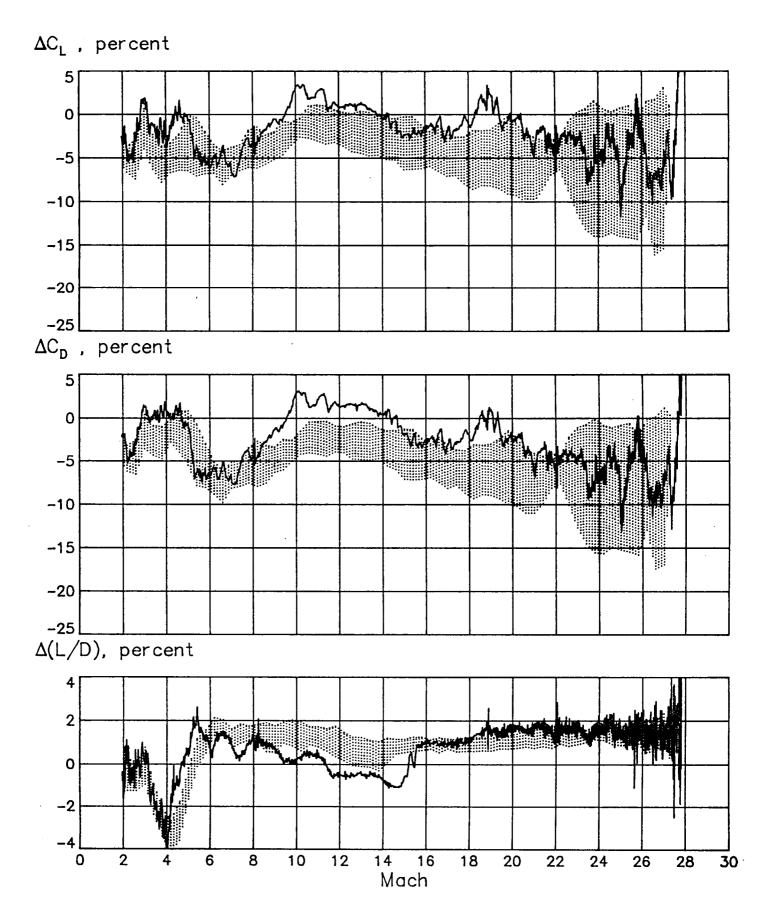


Figure 37a. STS-8 flight / data base differences vs. Mach.

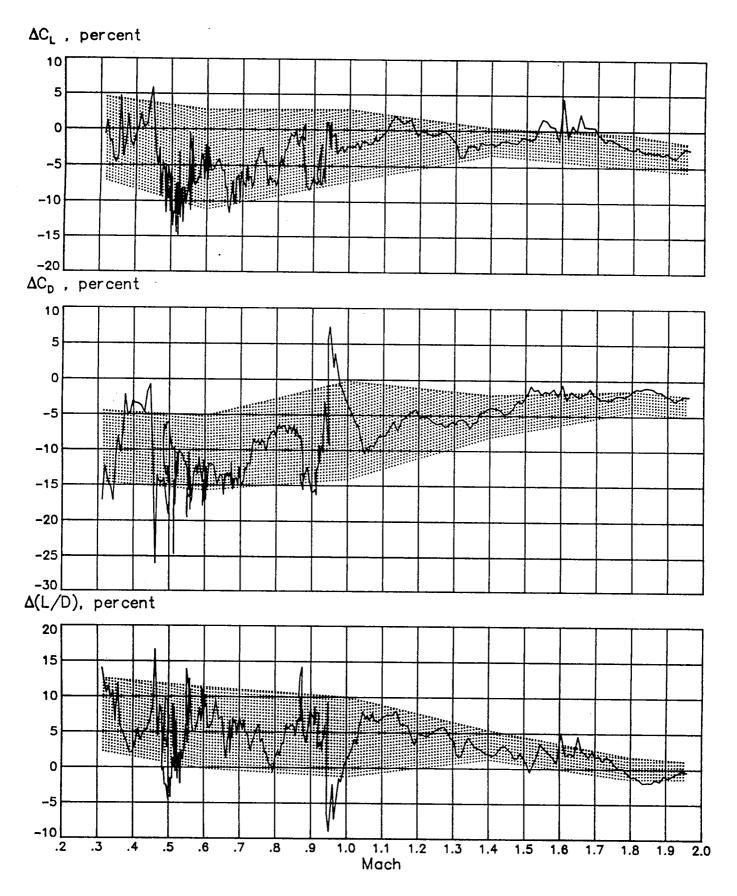


Figure 37b. STS-8 flight / data base differences vs. Mach.

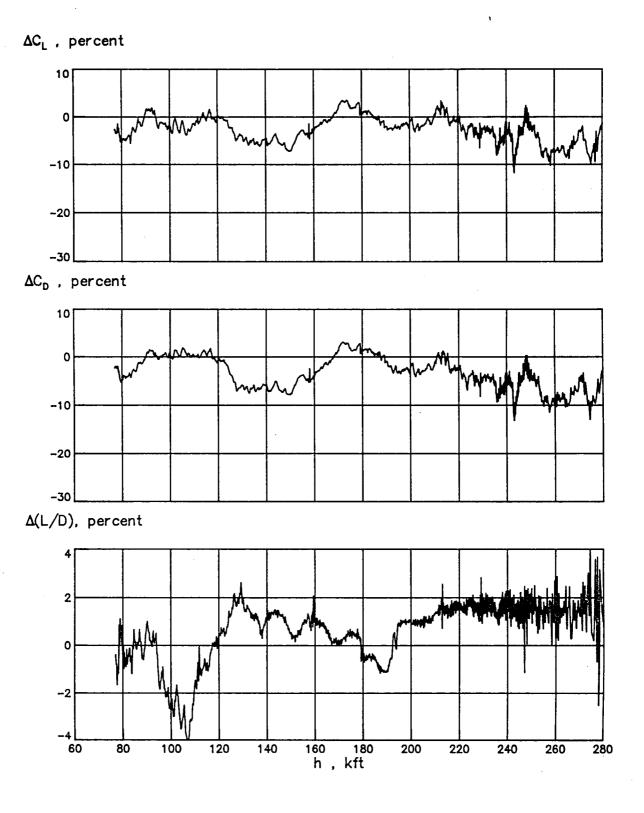


Figure 38a. STS-8 flight / data base differences vs. altitude.

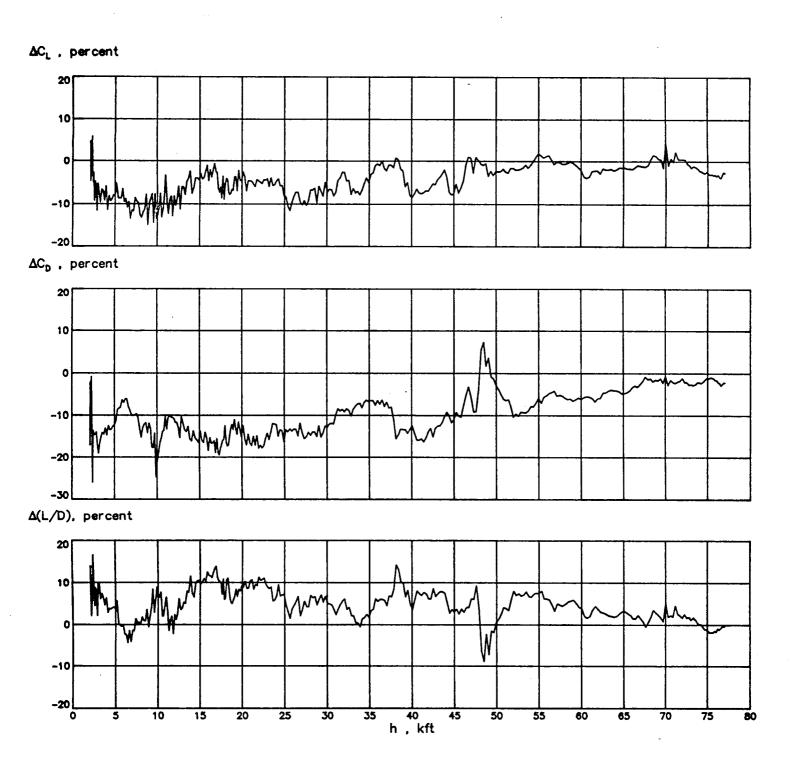


Figure 38b. STS-8 flight / data base differences vs. altitude.

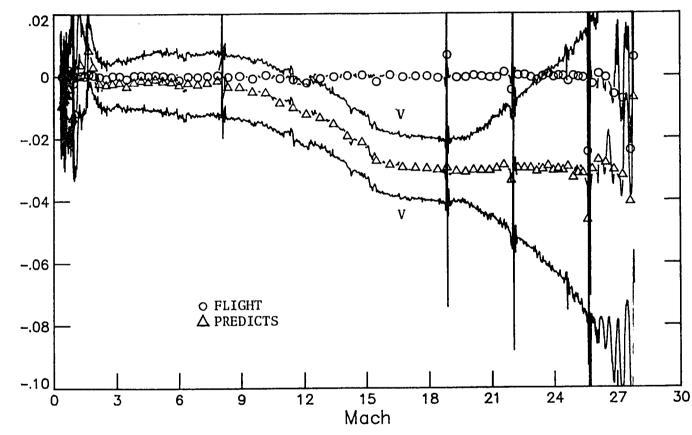


Figure 39. STS-8 $C_{\rm m}$ comparisons vs. Mach.

IV. MMLE input files

GTFILEs were generated using IMU2 and ACIP spacecraft dynamics. The 25 Hz IMU GTFILE is available on NX0844. The OI data required was the LaRC converted OI-2 tape, NM0543. IMU2 data necessary for the high frequency file generation is on NX0482. The IMU2 GTFILE was generated from epoch to main gear touchdown by direct integration of the equations of motion, outputting at times commensurate with the 25 Hz OI-2 file. The LAIRS atmosphere was utilized for air relative computations.

The ACIP GTFILE generated was output on NX0943. Here, 15 files (CDC System Records) were written. Table IV defines the maneuvers (type and specified times) as well as the actual start and stop times of each file necessary to accommodate the maneuvers. The ACIP data utilized (NY1030) in the short integration intervals were calibrated versus the IMU data. Again, the same OI-2 data and LAIRJ8 atmosphere were incorporated.

1) LATERAL/DIRECTIONAL

START TIME		STOP TIME		MANE	UVEF	<u>`T'</u>	YPE*	ACIP	FILE ON	NX0943
GMT	(t ₁)	GMT	(t ₂)					No.	tSTART	tEND
248:07:15:45	(835)	248:07:15:52	(842)	BRB				1	830	890
16:03	(853)	16:18	(868)	BRE					,	
16:29	(879)	16:38		OTH						
17:42	(952)		(973)		9 q	=	22	. 2	950	975
20:49	(1139)		(1150)		0 M	=	21	3	1135	1165
21:05	(1155)	21:11	(1161)	HTO				_		4 = 0 =
23:38	(1308)		(1317)		0 M	=	18	4	1305	1325
26:16	(1466)		(1482)					5	1460	1490
27:20	(1530)		(1534)					6 7	1525	1535
	(1554)		(1562)	BRE					1550	1575
	(1609)	28:54	(1624)					8	1605	1625
	(1657)	29:36	(1666)	PTI	0 M	=	8.4	9	1655	1680
	(1672)	29:46	(1676)							
30:50	(1740)	30:53	(1743)	BRB				10	1735	1770
31:06	(1756)	31:12	(1762)	BRE						
31:32	(1782)	31:41	(1791)	PTI	@ M	=	5.8	. 11	1780	1805
31:41	(1791)	31:50	(1800)				•			
32:34	(1844)	32:45	(1855)	PTI	@ M	=	4 ·	12	1840	1860
33:23	(1893)	33:26	(1896)	BRB				13	1890	1915
33:36	(1906)	33:40	(1910)	BRE						
34:37	(1967)	34:49	(1979)	PTI	0 M	=	2.2	14	1965	1985
35:16	(2006)	35:31		PTI			1.6	15	2005	2025

2) LONGITUDINAL

START TIME	STOP TIME	MANEUVER TYPE *		
20:58 23:46 27:48 29:36 34:49	(1316)23:52(1558)28:01(1666)29:41(1979)34:54	(879) OTH (1158) PTI @ M = 21 (1322) PTI @ M = 18 (1571) BFP (1671) PTI @ M = 8.4 (1984) PTI @ M = 2.2 (2024) PTI @ M = 1.6	see 3	above above above above

NOTE: t_1 , t_2 , t_{START} , t_{END} in seconds from epoch

* KEY TO MANEUVER TYPES:

BRB - Bank Reversal Beginning

BRE - Bank Reversal End

OTH - Incidental motion which may or may not be worth analysis PTI - Programmed Test Input, best type of maneuver for analysis

Table IV. Definition of ACIP GTFILEs for STS-8.

APPENDIX A

Spacecraft and Physical Constants

	NEGOMATIONALLA	
++++IMU NBR 1 ATTITUDE I	NFORMATION++++	
INERTIAL (EE50) TO ROT		
•20004927E-01	•99979988E+00	62464349E-04
-,99979463E+00	•20005024E-01	•32404828E-02
.32410839E-02	23740994E-05	•99999475E+00
ROTATING (ETOD) TO N-E	-D	
•38250454E-01	34430089E-01	.99867486E+00
66901498E+00	74324892E+00	0•
•74226401E+00	66812844E+00	-,51463854E-01
NAV BASE TO S/C BODY		
•98291060E+00	•36562360E-03	18408340E+00
37935500E-03	.9999990E+00	39375570E-04
•18408330E+00	•10853560E-03	•98291060E+00
NAV BASE TO DUTER ROLL		
•9999972E+00	41209163E-04	.74855225E-03
.41209151E-04	.1000000E+01	.30847212E-07
74855225E-03	0.	.99999972E+00
PLATFORM TO DUTER ROLL		
.50912188E-02	•53491494E+00	84480272E+00
79646339E+00	50855789E+00	32678715E+00
60454255E+00	•67454413E+00	.42359476E+00
INERTIAL (EE50) TO PLA	ATFORM	and the second s
75639075E+00	.32071360E-01	.65333265E+00
.64588976E+00	•19455898E+00	.73822284E+00
10343599E+00	•98036629E+00	16787732E+00
S/C BODY TO N-E-D		
.50353292E+00	84481462E+00	•18039834E+00
•74523528E+00	.53039443E+00	.40383799E+00
-,43700328E+00	68876943E-01	.89679624E+00

TABLE A-1
STS-8 IMU attitude matrices

+++++IMU NBR 2 ATTITUDE I	NFORMATION+++++	
INERTIAL (EE50) TO ROT	ATING (ETOD)	
•20004927E-01	•99979988E+00	62464349E-04
99979463E+00	.20005024E-01	•32404828E-02
•32410839E-02	23740994E-05	.99999475E+00
ROTATING (ETOD) TO N-E	- D	e de entre de la companya de la comp
•38250454E-01	34430089E-01	.99867486E+00
66901498E+00	74324892E+00	0.
•74226401E+00	66812844E+00	51463854E-01
NAV BASE TO S/C BODY		
•98291060E+00	•36562360E-03	18408340E+00
37935500E-03	•9999990E+00	39375570E-04
•18408330E+00	•10853560E-03	.98291060E+00
NAV BASE TO OUTER ROLL		
•9999765E+00	21653551E-02	•12392294E-03
•21653520E-02	•99999766E+00	.24900017E-04
12397657E-03	24631622E-04	•9999999E+00
PLATFORM TO OUTER ROLL		
11547991E+00	•65532701E+00	•74653746E+00
78217594E+00	52330219E+00	•33838161E+00
•61234995E+00	54483744E+00	•57290555E+00
INERTIAL (EE50) TO PLA	TFORM	
•23175478E+00	.75460368E+00	.61389083E+00
34276372E+00	52725321E+00	•77750629E+00
•91038519E+00	39061040E+00	•13645720E+00
S/C BODY TO N-E-D		
•50256064E+00	84600360E+00	•17841374E+00
•74588252E+00	•52861484E+00	•40536192E+00
43728663E+00	70635271E-01	.89658719E+00

TABLE A-1 (Continued)

++++IMU NBR 3 ATTITUDE I	NFORMATION++++	
INERTIAL (EE50) TO ROT	ATING (ETOD)	
•20004927E-01	.99979988E+00	62464349E-04
99979463E+00	.20005024E-01	•32404828E-02
.32410839E-02	23740994E-05	•99999475E+00
ROTATING (ETOD) TO N-E-	- D	
•38250454E-01	34430089E-01	•99867486E+00
66901498E+00	74324892E+00	0.
•74226401E+00	66812844E+00	51463854E-01
NAV BASE TO S/C BODY		
•98291060E+00	•36562360E-03	18408340E+00
37935500E-03	•9999990E+00	39375570E-04
•18408330E+00	•10853560E-03	.98291060E+00
NAV BASE TO DUTER ROLL		
•9999429E+00	•12891322E-02	•31251399E-02
12891429E-02	.99999917E+00	•14160325E-05
31251355E-02	54447762E-05	•99999512E+00
PLATFORM TO OUTER ROLL		
•91913187E+00	38190265E+00	.96693555E-01
38269852E+00	92384330E+00	10912244E-01
•93493961E-01	26974062E-01	99528756E+00
INERTIAL (EE50) TO PLA	TFORM	en de anno en a ntigario de la cale nta de la calenta de
•35923463E+00	44550270E+00	.82004714E+00
46916306E+00	.67338336E+00	•57134944E+00
80674404E+00	58998471E+00	•32888920E-01
S/C BODY TO N-E-D		•
•50363348E+00	84534088E+00	•17828737E+00
•74508021E+00	•52948684E+00	.40562587E+00
43728086E+00	71451251E-01	.89651741E+00

TABLE A-1 (Concluded)

Planet Parameters

Physical Model

Polar Radius: 20,855,591.48 ft Equatorial Radius: 20,925,741.47 ft Rotational Rate: .7292115147E-4 rad/sec

Gravity Model

Central mass, μ: .1407646853E17 ft³/sec²

J₂: .10827E-2
C₃₀: .256E-5
C₄₀: .158E-5
C₂₂: .157E-5
S₂₂: -.897E-6

Runway 22 Location:

Altitude: 2097. ft (above ellipsoid)
Geodetic Latitude: 34.91628 deg
Longitude: 242.137582 deg
Azimuth: 238.241167 deg

Location of IMU relative to center-of-gravity in Body coordinates

(5-point table used for entry reconstruction)

TIME, sec	X_{B} , ft	Y_B , ft	z_B , ft
0	56.026	0.0083	-4.0417
1922	55.901	0.0083	-4.0833
2309	55.901	0.0083	-4.0833
2309.01	56.034	0.0083	-4.3083
2600	56.034	0.0083	-4.3083

Spacecraft aerodynamic reference parameters

Reference Area	2690	ft2
Span	78.057	ft
Chord	39.567	ft

TABLE A-2 Planet and Spacecraft Data Used for BET8T06, STS8BET, and AEROBET Generation

Average Attitude Computations @ Epoch (25310 sec)

	IMU1	IMU2	IMU3	μ_	<u> </u>
ψ(deg)	55.9543	56.0287	55.9435	55.9755	0.0464
θ(deg)	25.9134	25.9298	25.9296	25.9243	0.0094
φ(deg)	-4.3919	-4.5046	-4.5568	-4.4844	0.0843

TABLE A-2 (Concluded)

Weight and Center-of-Gravity (c.g.) Location

TIME (sec from epoch)	EVENT*	WEIGHT (1bs)	XCG (inches in	Y _{CG} Orbiter Struct	Z _{CG} cural Reference)
0	ENTRY	205020.4	1091.5	-0.1	373.5
1922.	MACH 3	204468.4	1090.0	-0.1	373.0
2330.	LANDING	204272.4	1091.6	-0.1	370.3

Moments and Products of Inertia

(sec	TIME from epo	EVENT*	<u> </u>	I _{YY}	$\frac{I_{ZZ}}{slug} -$	ft ²	I _{XZ}	I _{YZ}
	0	ENTRY	900285.	6800431.	7095637.	3541.	140718.	-1375.
	1922.	MACH 3	895848.	6761535.	7059155.	3042.	130242.	-1616.
	2330.	LANDING	925221.	6780901.	7053631.	3227.	123260.	-1609.

TABLE A-3
STS-8 mass properties

^{*}MACH 3 values held constant until gear deploy (t=2309), landed values adopted thereafter.

APPENDIX B

Final residuals for STS-8 trajectory reconstruction

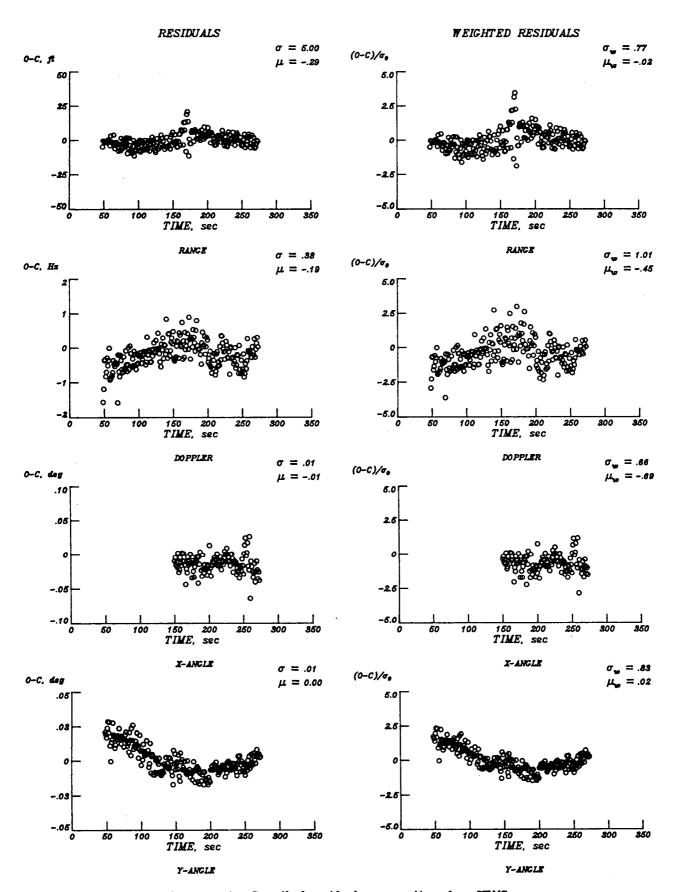


Figure B-1. Smoothed residuals versus time for GWMS.

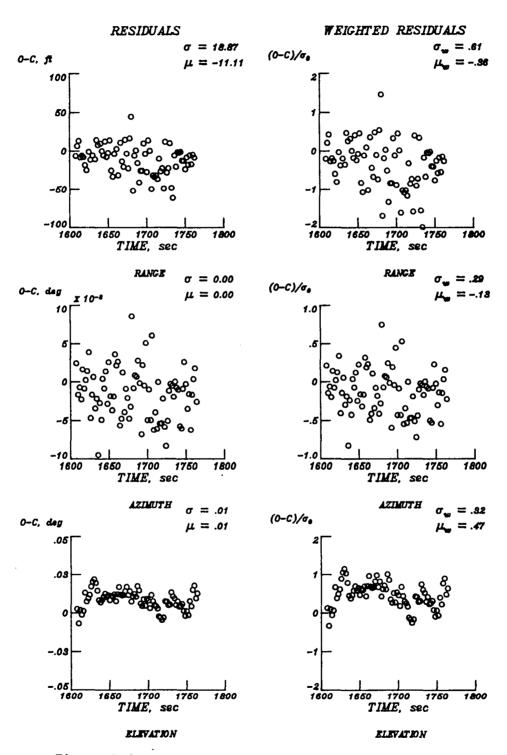


Figure B-2. Smoothed residuals versus time for PTPC.

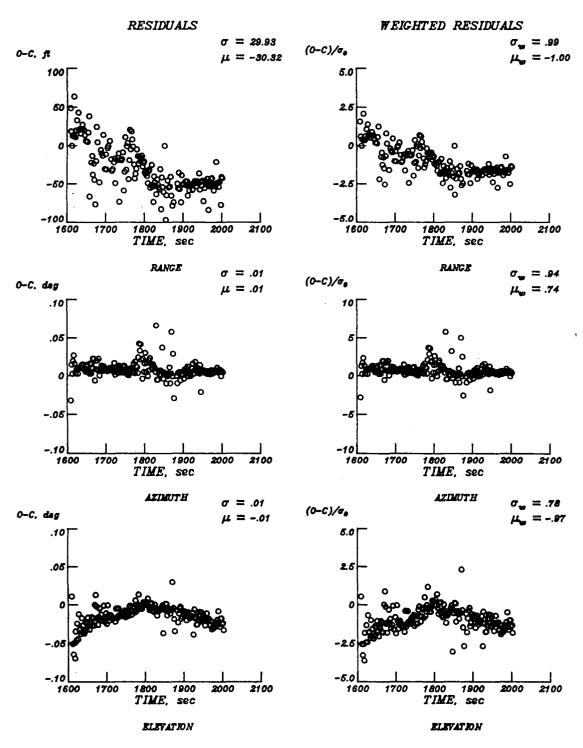


Figure B-3. Smoothed residuals versus time for VDSC.

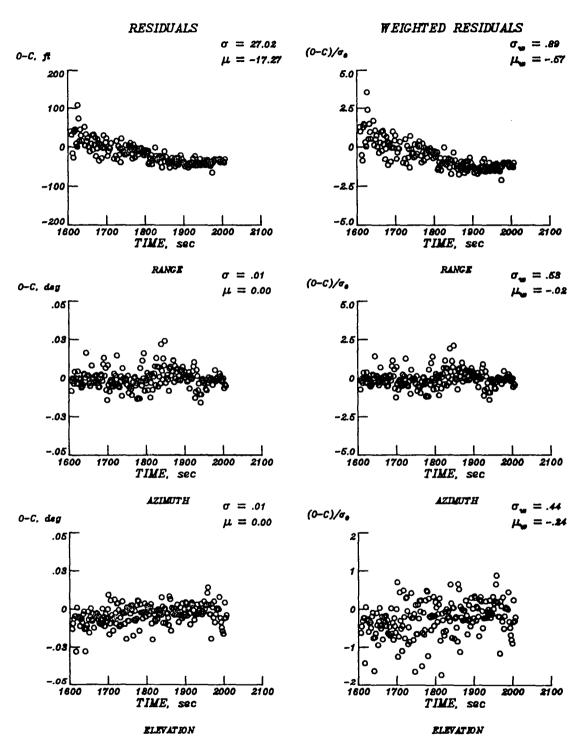


Figure B-4. Smoothed residuals versus time for VDBC.

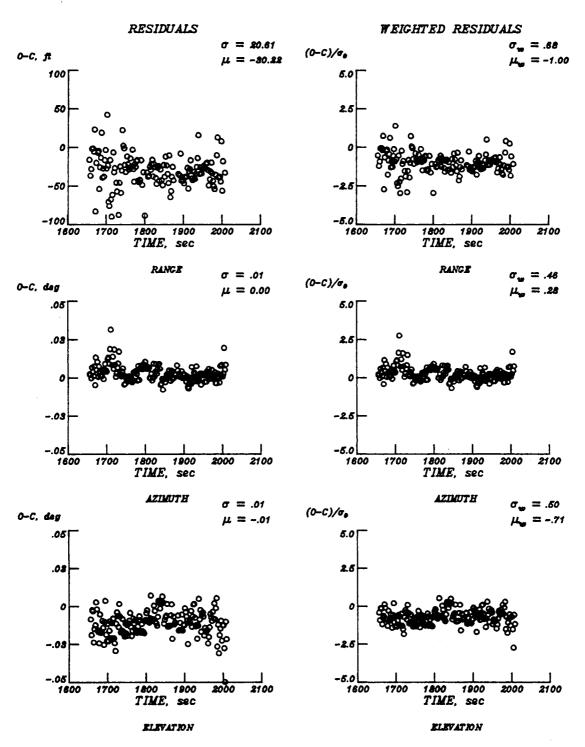


Figure B-5. Smoothed residuals versus time for SNFC.

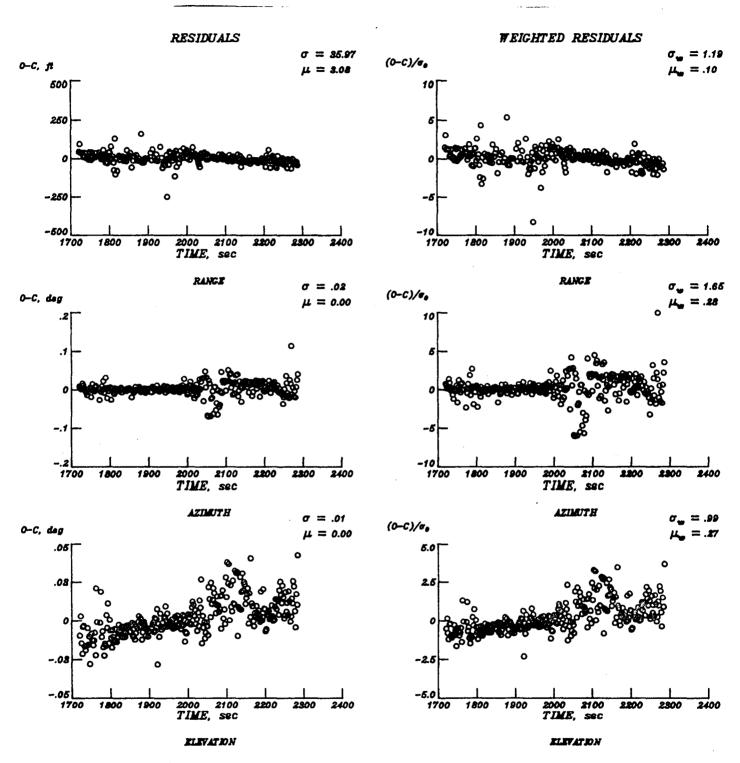


Figure B-6. Smoothed residuals versus time for EFFC.

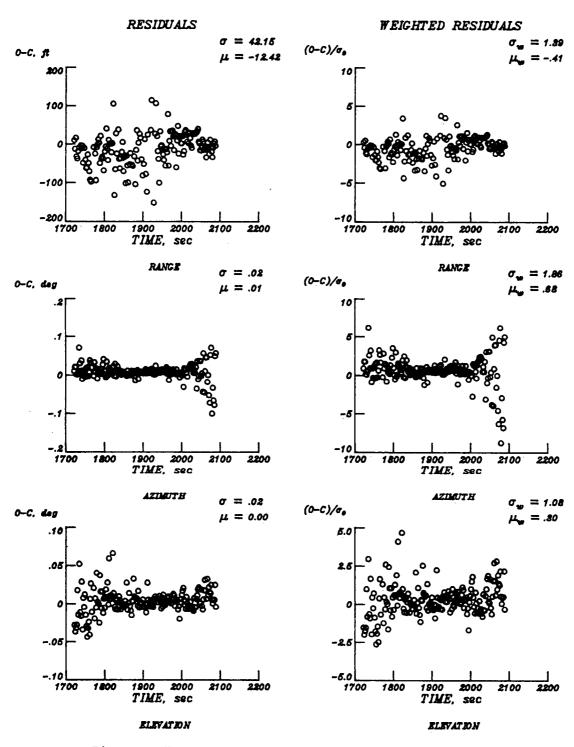


Figure B-7. Smoothed residuals versus time for FRCC.

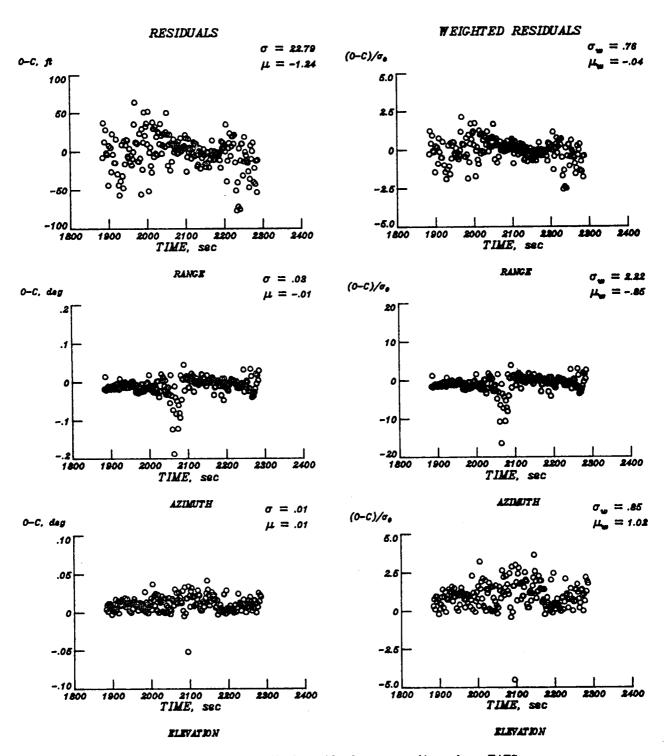


Figure B-8. Smoothed residuals versus time for EAFC,

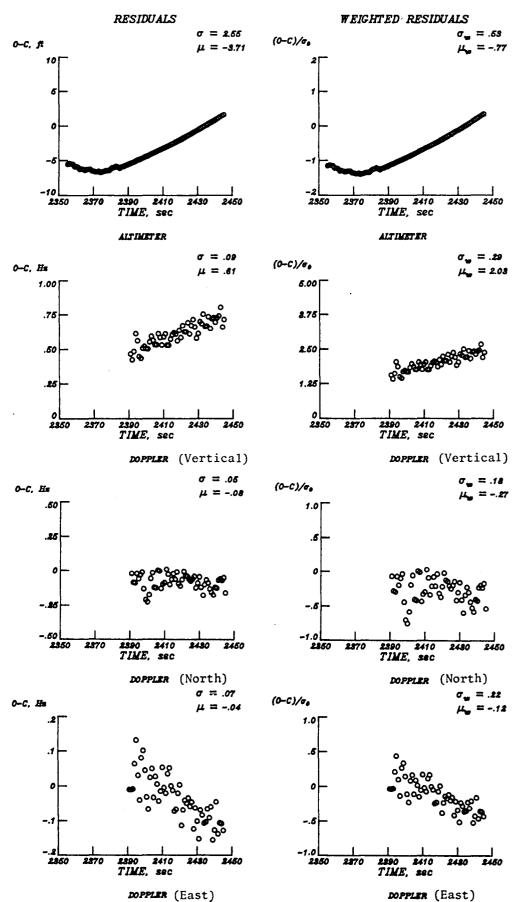


Figure B-9. Smoothed residuals for altimeter and Doppler (pseudo data). -82-

APPENDIX C

Listing of STS8BET air relative parameters @ 1.0 sec

(t, h, V_A , γ_A , ψ_A , σ_A , β_A , α_A , M_A , q_A)

‡

•••DESCRIPTIVE DATA (48-WORDS)

STSBBET USING LAIRJ8 (10/12/83), INERTIAL-BETBT06, NXO482 DYN. DATA.

830905 2446 STS-8 INERTIAL BET /BET8T06/ (TREF=25310)

INITIAL CONDITIONS FROM ARHOPWZ (ESOLVE) 10-06-83

IMU NBR 2 EA SEQ 1 (TAPE ND0376)

LAGELS AND UNITS EDD DATA TTEMS

S,C-BAND, PSEUDO ALTIMETER (POST WONG), PSEUDO DOPPLER (POST STOP)

SOLUTION SET--STATE, ACCELEROMETER SCALE FACTORS

	(1)	TIME	SEC	(2)	VEL A	FT/SEC	(3)	GAM A	DEG
	(4)	HDG A	DEG	(5)	ALTDE	FEET	(6)	LATD	DEG
	(7)	LONG	DEG	(8)	SIGMAA	DEG	(9)	BETA A	DEG
	(10)	ALPHAA	DES	(11)	YAW E	DEG	(12)	PTCH E	DEG
	(13)	ROLL E	DEG∉	(14)	U	FT/SEC	(15)	٧	FT/SEC
*	(16)	A	FT/SEC	(17)	VEL R	FT/SEC	(18)	GAM R	DEG
	(19)	HDG R	DEG	(20)	SIGMAR	DEG	(21)	BETA R	DEG
	(22)	ALPHAR	DEG	(23)	U-MIND	FT/SEC	(24)	V-WIND	FT/SEC
ά	(25)	A-AIND	FT/SEC	(26)	SIG-VA	FT/SEC	(27)	SIG-GA	DEG
	(28)	SIG-HA	DEG	(29)	SIG-H	FEET	(30)	SIG-LA	DEG
	(31)	SIG-LD	DEG	(32)	SIG-SA	DEG	(33)	SIG-BA	DEG
***********	(34)	SIG-AA	DEG	(35)	SIG-YE	DEG	(36)	SIG-PE	DEG
	(37)	SIG-RE	DEG	(38)	SIG-U	FT/SEC	(39)	SIG-V	FT/SEC
	(40)	SIG-W	FT/SEC	(41)	MACH A	NONE	(42)	MACH R	NONE
re number - decem	(43)	PINF	PSF	(44)	TEMP	DEG RANKIN	(45)	RHO	SLUGS/FT3
	(46)	O A	PSF	(47)	QR	PSF	(48)	PSTAG	PSF
	(49)	Р	DEG/SEC	(50)	Q	DEG/SEC	(51)	R	DEGISEC
	(52)	X ACCEL	FT/SEC/SEC	(53)	Y ACCEL	FT/SEC/SEC	(54)	7 ACCEL	FT/SEC/SEC
	(55)	CXB	NONE	(56)	CYB	NONE	(57)	CZB	NONE
	(58)	CL	NONE	(59)	CD	NONE	(60)	L/D	NONE
	(61)	CL-ROLL	NONE	(62)	CM-PITCH	NONE	(63)	CN-YAW	NONE
	(64)	PDOT	DEG/SEC2	(65)	QDOT	DEG/SEC2	(66)	RDOT	DEG/SEC2

	-								**		 			
•	•	•	N	ι	JM	E	R	I	C	A) A	T	A	

ISERNO 1 NWDS 66 IUNITS 2 EPOCH •25310000E+05 RADE

PDCH .25310000E+05 RADE .20925741E+08 RAI

.20855591E+08 DME

.72921151E-04

STSBBET USING LAIRJB (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA. PAGE

TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
0.0	617298.9	24014.0	799	59.877	-4.120	1.866	26.913	12.825	•000
1.0	616968.0	24014.4	800	59.880	-4.226	1.817	27.014	12.829	.000
2.0	616636.8	24014.8	801	59.883	-4.323	1.776	27.118	12.832	.000
3.0	616305.0	24015.2	802	59.887	-4.415	1.729	27.224	12.835	•000
4.0	615972.9	24015.7	803	59.890	-4.476	1.706	27.332	12.839	•000
5.0	615640.3	24016.1	804	59.894	-4.488	1.719	27.448	12.842	•000
6.0	615307.2	24016.5	805	59.897	-4.475	1.743	27.567	12.845	•000
7.0	614973.8	24016.9	806	59.901	-4.462	1.760	27.687	12.849	.000
8.0	614639.9	24017.3	808	59.905	-4.459	1.769	27.815	12.852	•000
9.0	614305.6	24017.8	809	59.908	-4.463	1.769	27.941	12.855	•000
10.0	613970.9	24018.2	810	59.912	-4.464	1.763	28.066	12.859	•000
11.0	613635.7	24018.6	811	59.916	-4.465	1.759	28.202	12.862	•000
12.0	613300.1	24019.0	812	59.920	-4.482	1.753	28.337	12.866	.000
120	612964.0	24019.5	813	59.923	-4.482	1.745	28.472	12.869	.000
[∞] 14.0	612627.6	24019.9	814	59.927	-4.495	1.742	28.609	12.873	.000
15.0	612290.7	24020.3	815	59.931	-4.505	1.737	28.750	12.876	•000
16.0	611953.4	24020.7	816	59.935	-4.504	1.731	28.892	12.880	• 000
17.0	611615.7	24021.1	818	59.939	-4.511	1.727	29.034	12.883	•000
18.0	611277.5	24021.6	819	59.943	-4.525	1.723	29.176	12.887	• 000
19.0	610938.9	24022.0	820	59.947	-4.539	1.716	29.322	12.890	•000
20.0	610599.9	24022.4	821	59.951	-4.544	1.709	29.483	12.894	•000
21.0	610260.5	24022.9	822	59.955	-4.562	1.705	29.635	12.897	•000
22.0	609920.6	24023.3	823	59.959	-4.575	1.697	29.782	12.901	• 000
23.0	609580.4	24023.7	824	59.963	-4.589	1.691	29.935	12.904	.000
24.0	609239.7	24024.2	825	59.968	-4.609	1.686	30.094	12.908	•000
25.0	608898.5	24024.6	826	59.972	-4.621	1.683	30.265	12.911	• 000
26.0	608557.0	24025.0	827	59.976	-4.641	1.675	30.422	12.915	•000
27.0	608215.0	24025.5	829	59.980	-4.663	1.643	30.578	12.919	• 000
28.0	607872.7	24025.9	B30	59.985	-4.697	1.609	30.718	12.922	•000
29.0	607529.9	24026.3	831	59.989	-4.730	1.577	30.841	12.926	.000

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
. =	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	30.0	607186.7	24026.7	_ 033	EQ 00/					
	31.0	606843.1		832	59.994	-4.764	1.541	30.955	12.930	• 000
	1 hours 1 m 1		24027.2	833	59.998	-4.778	1.516	31.064	12.933	• 000
	32.0	606499.1	24027.6	834	60.003	-4.753	1.521	31.169	12.937	•000
	33.0	606154.6	24028.1	835	60.007	-4.734	1.522	31.266	12.941	• 000
	34.0	605809.8	24028.5	836	60.012	-4.724	1.519	31.353	12.944	• 000
	35.0	605464.5	24028.9	837	60.016	-4.708	1.523	31.442	12.948	• 000
	36.0	605118.8	24029.4	838	60.021	-4.694	1.517	31.526	12.952	• 000
	37.0	604772.7	24029.8	839	60.026	-4.681	1.516	31.627	12.956	• 000
	38.0	604426.2	24030.2	840	60.030	-4.673	1.513	31.708	12.959	•000
	39.0	604079.3	24030.7	841	60.035	-4.663	1.511	31.780	12.963	• 000
	40.0	603731.9	24031.1	842	60.040	-4.658	1.511	31.849	12.967	•000
	41.0	603384.2	24031.5	844	60.045	-4.646	1.504	31.926	12.971	• 000
	42.0	603036.0	24032.0	845	60.050	-4.638	1.502	32.001	12.974	• 000
	d 43•0	602687.4	24032.4	846	60.054	-4.625	1.502	32.088	12.978	•000
	° 44.0	602338.5	24032.9	847	60.059	-4.619	1.498	32.171	12.982	• 000
	45.0	601989.0	24033.3	848	60.064	-4.616	1.497	32.258	12.986	•000
	46.0	601639.2	24033.8	849	60.069	-4.606	1.496	32.340	12.990	•000
	47.0	601289.0	24034.2	850	60.074	-4.613	1.495	32.425	12.994	•000
	48.0	600938.4	24034.6	851	60.080	-4.596	1.491	32.496	12.998	•000
•	49.0	600587.4	24035.1	852	60.085	-4.596	1.488	32.565	13.002	• 000
	50.0	600235.9	24035.5	853	60.090	-4.597	1.487	32.631	13.002	• 000
	51.0	599884.0	24036.0	854	60.095	-4.600	1.482	32.701	13.009	the second secon
	52.0	599531.8	24036.4	855	60.100	-4.594	1.481	32.777	And the Company of th	• 000
-	53.0	599179.1	24036.9	856	60.105	-4.595	1.478	32.859	13.013	• 000
	54.0	598826.0	24037.3	857	60.111	-4.597	1.479	32.936	13.017	• 000
	55.0	598472.5	24037.7	858	60.116	-4.595	1.475	THE COLUMN TO THE COLUMN TO SERVE AND ADDRESS OF THE COLUMN THE CO	13.021	• 000
	56.0	598118.6	24038.2	859	60.122	-4.596		33.011	13.025	•000
	57.0	597764.3	24038.6	861	60.127	* * * * * * * * * * * * * * * * * * *	1.470	33.101	13.029	• 000
	58.0	597409.6	24039.1	862	60.132	-4.606	1.470	33.184	13.033	• 000
	59.0	597054.5	24039.5			-4.605	1.465	33.278	13.037	•000
	3700	77107707	2703703	862	60.138	-4.609	1.462	33.334	13.041	•000

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American services

Ti	ME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	EC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
						Company of the Compan				
	0.0	596699.0	24040.0	863	60.143	-4.624	1.459	33.310	13.046	• 000
	1.0	596343.1	24040.4	865	60.149	-4.628	1.456	33.282	13.050	•000
	2.0	595986.9	24040.9	866	60.155	-4.644	1.450	33.254	13.054	• 000
	3.0	595630.2	24041.4	867	60.160	-4.650	1.443	33.227	13.058	•000
	4.0	595273.1	24041.8	868	60.166	-4.660	1.440	33.208	13.062	•000
	5.0	594915.6	24042.3	869	60.171	-4.677	1.429	33.186	13.066	• 000
	6.0	594557.7	24042.7	870	60.177	-4.680	1.427	33.172	13.070	•000
	7.0	594199.4	24043.1	871	60.183	-4.704	1.423	33.152	13.074	• 000
	8.0	593840.7	24043.6	872	60.189	-4.710	1.418	33.140	13.079	• 000
. gymanacaram	9.0	593481.6	24044.1	873	60.195	-4.728	1.413	33.133	13.083	• 000
	70.0	593122.1	24044.5	874	60.201	-4.743	1.411	33.126	13.087	•000
	71.0	592762•2	24044.9	875	60.206	-4.754	1.403	33.115	13.091	• 000
		592401.9	24045.4	876	60.212	-4.767	1.398	33.111	13.096	•000
	72.0	592041.2	24045.9	877	60.218	-4.791	1.393	33.115	13.100	• 000
· · · · · · · · · · · · · · · · · · ·	73.0	591680.1	24046.3	878	60.224	-4.803	1.387	33.110	13.104	•000
Contraction of the contraction	74.0	591318.6	24046.8	879	60.230	-4.823	1.379	33.113	13.108	•000
	75.0	590956.7	24047.3	880	60.237	-4.847	1.377	33.117	13.113	• 000
	76.0		24047.7	881	60.243	-4.862	1.371	33.127	13.117	•000
	77.0	590594 • 4	24048.2	882	60.249	-4.885	1.365	33.138	13.121	.000
	78.0	590231.7	24048.6	883	60.255	-4.915	1.359	33.149	13.126	.000
	79.0	589868.6	24049.1	884	60.261	-4.933	1.352	33.162	13.130	•000
The garden to the second of the	30.0	589505.1	24049.5	885	60.268	-4.961	1.349	33.178	13.135	• 000
	31.0	589141.2	24050.0	886	60.274	-4.983	1.343	33.198	13.139	• 000
	32.0	588777.0	24050.4	887	60.280	-5.002	1.337	33.216	13.143	•000
	33.0	588412.3		888	60.287	-5.040	1.332	33.240	13.148	• 000
	34.0	588047.2	24050.9	889	60.293	-5.066	1.324	33.265	13.152	•000
	35.0	587681.7	24051.4	 890	60.300	-5.092	1.320	33.289	13.157	•000
	86.0	587315.9	24051.8	890 891	60.306	-5.117	1.310	33.319	13.161	•000
	87.0	586949.6	24052.3	CONTRACTOR OF THE PARTY OF THE	60.313	-5.115	1.327	33.350	13.166	• 000
	88.0	586583.0	24052.8	892	60.319	-5.114	1.312	33.393	13.170	.000
	89. 0	586215.9	24053.2	894	00.317	-20114				

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# TME	41 TOE	MELA	CAMA		CTCMAA				
TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
90.0	585848.5	24053.7	895	60.326	-5.118	1.289	33.438	13.175	• 000
91.0	585480.6	24054.2	895	60.332	-5.119	1.261	33.480	13.179	•000
92.0	585112.4	24054.6	897	60.339	-5.112	1.236	33.527	13.184	•000
93.0	584743.8	24055.1	898	60.346	-5.115	1.215	33.577	13.189	•000
94.0	584374.8	24055.6	899	60.353	-5.116	1.184	33.626	13.193	•000
95.0	584005.4	24056.0	900	60.359	-5.114	1.158	33.674	13.198	.000
96.0	583635.6	24056.5	901	60.366	-5.124	1.134	33.725	13.202	•000
97.0	583265.4	24057.0	902	60.373	-5.133	1.105	33.785	13.207	.000
98.0	582894.9	24057.4	903	60.380	-5.133	1.081	33.844	13.212	•000
99.0	582523.9	24057.9	904	60.387	-5.139	1.053	33.904	13.216	.000
100.0	582152.6	24058.4	905	60.394	-5.138	1.031	33.971	13.221	•000
101.0	581780.8	24058.8	906	60.401	-5.105	1.038	34.038	13.226	• 000
102.0	581408.7	24059.3	907	60.408	-5.060	1.052	34.113	13.231	• 000
103.0	581036.2	24059.8	908	60.415	-5.020	1.057	34.188	13.235	.000
104.0	580663.3	24060.3	909	60.422	-4.974	1.074	34.259	13.240	•000
105.0	580290.0	24060.7	910	60.429	-4.928	1.088	34.343	13.245	• 000
106.0	579916.4	24061.2	911	60.437	-4.890	1.098	34.421	13.250	• 000
107.0	579542.4	24061.7	912	60.444	-4.849	1.119	34.498	13.255	• 000
108.0	579167.9	24062.1	913	60.451	-4.807	1.123	34.589	13.259	• 000
109.0	578793.1	24062.6	914	60.458	-4.767	1.136	34.672	13.264	.000
110.0	578417.9	24063.1	915	60.466	-4.724	1.156	34.767	13.269	•000
111.0	578042.4	24063.5	916	60.473	-4.691	1.171	34.862	13.274	•000
112.0	577666.4	24064.0	916	60.481	-4.661	1.178	34.952	13.279	• 000
113.0	577290.1	24064.5	917	60.488	-4.621	1.193	35.044	13.284	•000
114.0	576913.4	24065.0	918	60.496	-4.587	1.207	35.142	13.289	•000
115.0	576536.3	24065.5	919	60.503	-4.552	1.220	35.249	13.294	•000
116.0	576158.8	24065.9	920	60.511	-4.518	1.237	35.348	13.299	•000
117.0	575781.0	24066.4	921	60.518	-4.492	1.250	35.453	13.304	.000
118.0	575402.7	24066.9	922	60.526	-4.456	1.265	35,559	13.309	•000
119.0	575024.1	24067.4	923	60.534	-4.421	1.275	35.675	13.314	.000
		and the state of t	and the same of th						

-88-

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	120.0	574645.1	24067.8	924	60.541	-4.391	1.287	35.782	13.319	• 000
	121.0	574265.7	24068.4	925	60.549	-4.368	1.302	35.900	13.324	•000
	122.0	573886.0	24068.8	926	60.557	-4.342	1.315	36.012	13.329	.000
	123.0	573505.9	24069.3	927	60.565	-4.308	1.331	36.132	13.335	•000
	124.0	573125.4	24069.8	928	60.573	-4.276	1.344	36.252	13.340	•000
	125.0	572744.5	24070.3	929	60.580	-4.251	1.358	36.372	13.345	•000
	126.0	572363.2	24070.7	930	60.588	-4.226	1.373	36.499	13.350	• 000
	127.0	571981.6	24071.2	931	60.596	-4.201	1.389	36.627	13.355	.000
	128.0	571599.6	24071.7	932	60.604	-4.182	1.403	36.753	13.361	•000
	129.0	571217.2	24072.2	933	60.612	-4.155	1.417	36.885	13.366	.000
	130.0	570834.5	24072.7	934	60.620	-4.132	1.431	37.021	13.371	•000
	131.0	570451.4	24073.2	935	60.629	-4.116	1.446	37.153	13.376	• 000
	132.0	570067.9	24073.7	936	60.637	-4.095	1.453	37.290	13.382	•000
	133.0	569684.0	24074.1	937	60.645	-4.073	1.466	37.434	13.387	.000
	134.0	569299.8	24074.6	938	60.653	-4.054	1.482	37.577	13.392	•000
I	135.0	568915.2	24075.1	939	60.661	-4.039	1.496	37.719	13.398	•000
	136.0	568530.2	24075.6	940	60.670	-4.017	1.513	37.868	13.403	•000
	137.0	568144.9	24076.1	941	60.678	-4.006	1.528	38.011	13.409	•000
4 4 4	138.0	567759.2	24076.6	942	60.686	-3.998	1.543	38.159	13.414	•000
	139.0	567373.1	24077.0	943	60.695	-3.973	1.556	38.295	13.420	.000
Acres 100 000	140.0	566986.7	24077.5	943	60.703	-3.970	1.569	38.411	13.425	.000
9 + 0 + 1 + 4 + 4	141.0	566599.9	24078.0	945	60.712	-3.950	1.579	38.518	13.431	.000
	142.0	566212.7	24078.5	945	60.720	-3.943	1.595	38.632	13.436	• 000
	143.0	565825.2	24079.0	946	60.729	-3.932	1.600	38.726	13.442	.000
	144.0	565437.3	24079.5	947	60.737	-3.926	1.611	38.817	13.447	.000
	145.0	565049.1	24080.0	948	60.746	-3.919	1.626	38.911	13.453	.000
	145.0	564660.5	24080.5	949	60.755	-3.906	1.640	39.001	13.458	•000
	the second secon	564271.5	24081.0	950	60.764	-3.901	1.650	39.089	13.464	.000
	147.0	563882.2	24081.4	 951	60.772	-3.898	1.660	39.164	13.470	•000
	148.0	563492.5	24081.4	 952	60.781	-3.895	1.666	39.237	13.475	.000

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	150.0	563102.5	24082.4	953	60.790	-3.889	1.675	39.316	12 (01	
	151.0	562712.1	24082.9	-, 954	60.799	-3.885	1.686	39.310	13.481	• 000
	152.0	562321.3	24083.4	955	60.808	-3.890	1.695	39.476	13.487 13.493	•000
	153.0	561930.2	24083.9	956	60.817	-3.890	1.706	39.567	13.498	• 000
	154.0	561538.7	24084.4	957	60.825	-3.884	1.713	39.656	13.504	•000
-	155.0	561146.8	24084.9	958	60.834	-3.887	1.723	39.734	13.510	•000
	156.0	560754.6	24085.4	958	60.844	-3.896	1.730	39.806		•000
	157.0	560362.1	24085.9	 959	60.853	-3.894	1.735	39.873	13.516	• 000
	158.0	559969.2	24086.4	960	60.862	-3.895	1.740		13.522	• 000
	159.0	559575.9	24086.9	mentals in a contract of the second sections.	60.871	For School of the State of the	and the service of the engine of the engine of the contract of	39.940	13.528	• 000
	160.0	559182.3		961	· ··	-3.904	1.751	40.018	13.534	•000
			24087.4	962	60.880	-3.911	1.754	40.092	13.539	• 000
	161.0	558788.3	24087.9	963	60.889	-3.912	1.765	40.164	13.545	• 000
	162.0	558393.9	24088.4	964	60.899	-3.920	1.770	40.247	13.551	•000
<u> </u>	163.0	557999.2	24088.9	965	60.908	-3.929	1.772	40.330	13.557	•000
	164.0	557604.2	24089.4	966	60.917	-3.939	1.782	40.417	13.563	•000
	165.0	557208.7	24089.9	967	60.927	-3.949	1.788	40.505	13.570	•000
	166.0	556813.0	24090.4	968	60.936	-3.959	1.794	40.594	13.576	•000
	167.0	556416.9	24090.9	968	60.945	-3.973	1.799	40.675	13.582	• 000
	168.0	556020.4	24091.4	969	60.955	-3.983	1.799	40.740	13.588	•000
	169.0	555623.6	24091.9	970	60.964	-3.995	1.805	40.816	13.594	• 000
	170.0	555226.4	24092.4	971	60.974	-4.004	1.809	40.891	13.600	.000
	171.0	554828.9	24092.9	972	60.984	-4.026	1.811	40.960	13.606	.000
	172.0	554431.0	24093.4	973	60.993	-4.044	1.816	41.042	13.613	• 000
	173.0	554032.8	24093.9	974	61.003	-4.058	1.821	41.120	13.619	•000
	174.0	553634.2	24094.4	975	61.013	-4.069	1.826	41.198	13.625	.000
	175.0	553235.3	24094.9	976	61.022	-4.088	1.827	41.282	13.631	• 000
	176.0	552836.0	24095.4	977	61.032	-4.113	1.832	41.369	13.638	•000
	177.0	552436.4	24095.9	977	61.042	-4.141	1.789	41.449	13.644	•000
	178.0	552036.4	24096.4	978	61.052	-4.195	1.650	41.489	13.651	•000
	179.0	551636.1	24096.9	979	61.062	-4.254	1.490	41.502	13.657	.000

		TO MARKET 1 P				Language Company to the Control of the	namena artista santa de la companio	19 and 19	and the second section of the section o	
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	Q A
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	100 0	EE122E 6	24097.4	980	61.071	-4.315	1.340	41.525	13.663	• 000
	180.0	551235.5		981	61.071	-4.372	1.194	41.547	13.670	•000
	181.0	550834.5	24097.9	 982	61.091	-4.435	1.038	41.567	13.676	• 000
	182.0	550433.2	24098.4	The second secon	61.102	-4.490	.884	41.594	13.683	• 000
	183.0	550031.5	24098.9	983	the second secon	-4.553	•734	41.618	13.689	.000
	184.0	549629.5	24099.5	984	61.112		.575	41.646	13.696	• 000
	185.0	549227.1	24100.0	985	61.122	-4.613		41.671	13.703	• 000
	186.0	548824.4	24100.5	985	61.132	-4.672	.433		13.709	• 000
	187.0	548421.3	24101.0	986	61.142	-4.733	•281	41.707	13.716	.000
	188.0	548018.0	24101.5	987	61.152	-4.765	.152	41.745		•000
	189.0	547614.2	24102.0	988	61.163	-4.754	.081	41.795	13.723	
	190.0	547210.1	24102.5	989	61.173	-4.718	•026	41.846	13.729	•000
	191.0	546805.7	24103.0	990	61.183	-4.682	037	41.893	13.736	• 000
	192.0	546401.0	24103.5	991	61.194	-4.659	102	41.951	13.743	•000
-91	193.0	545995.8	24104.1	992	61.204	-4.626	162	42.011	13.750	•000
1	194.0	545590.4	24104.6	992	61.214	-4.610	220	42.076	13.756	•000
	195.0	545184.6	24105.1	993	61.225	-4.580	282	42.133	13.763	• 000
	196.0	544778.5	24105.6	994	61.235	-4.547	343	42.201	13.770	• 000
	197.0	544372.0	24106.1	995	61.246	-4.482	364	42.271	13.777	• 000
	198.0	543965.2	24106.6	996	61.257	-4.401	370	42.348	13.784	.000
	199.0	543558.0	24107.1	997	61.267	-4.328	383	42.426	13.791	.000
	200.0	543150.5	24107.7	998	61.278	-4.260	398	42.505	13.798	• 000
	201.0	542742.7	24108.2	998	61.289	-4.193	417	42.593	13.805	• 000
	202.0	542334.6	24108.7	999	61.299	-4.127	434	42.671	13.812	•000
	203.0	541926.1	24109.2	-1.000	61.310	-4.062	450	42.759	13.819	.000
	204.0	541517.3	24109.7	-1.001	61.321	-3.999	468	42.849	13.826	.000
		541108.1	24110.3	-1.002	61.332	-3.934	481	42.939	13.833	.001
	205.0		24110.3	-1.002	61.343	-3.871	 503	43.029	13.841	.001
	206.0	540698.6		The second secon	61.354	-3.804	519	43.126	13.848	.001
	207.0	540288.8	24111.3	-1.004		-3.738	534	43.226	13.855	•001
	208.0	539878.6	24111.8	-1.005	61.365	-3.680	549	43.324	13.862	.001
	209.0	539468.1	24112.3	-1.005	61.376	-3.000	7.544	43.364	13.005	

									111.70	
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	210.0	539057.3	24112.8	-1.006	61.387	-3.618	568	43.425	13.870	•001
	211.0	538646.1	24113.4	-1.007	61.398	-3.553	588	43.527	13.877	•001
	212.0	538234.6	24113.9	-1.008	61.409	-3.500	607	43.631	13.884	.001
	213.0	537822.8	24114.4	-1.009	61.420	-3.440	622	43.742	13.892	.001
	214.0	537410.7	24114.9	-1.010	61.431	-3.388	639	43.852	13.899	.001
	215.0	536998.2	24115.4	-1.010	61.443	-3.328	658	43.972	13.907	.001
	216.0	536585.4	24116.0	-1.011	61.454	-3.273	679	44.054	13.914	.001
	217.0	536172.3	24116.5	-1.012	61.465	-3.212	689	44.048	13.922	.001
	218.0	535758.9	24117.0	-1.013	61.477	-3.023	481	44.049	13.929	.001
	219.0	535345.3	24117.5	-1.013	61.488	-2.764	293	43.946	13.937	.001
	220.0	534931.4	24118.0	-1.014	61.499	-2.439	351	43.610	13.944	•001
	221.0	534517.2	24118.5	-1.015	61.511	-2.021	292	43.244	13.952	.001
	222.0	534102.8	24119.1	-1.016	61.522	-1.583	219	42.881	13.960	•001
-92	223.0	533688.0	24119.6	-1.016	61.534	-1.162	153	42.524	13.967	.001
1	224.0	533272.8	24120.1	-1.017	61.545	721	.003	42.172	13.975	•001
	225.0	532857.4	24120.6	-1.018	61.557	258	.185	41.817	13.983	•001
	226.0	532441.6	24121.2	-1.019	61.568	.106	.266	41.483	13.991	.001
	227.0	532025.5	24121.7	-1.020	61.580	•386	.264	41.164	13.999	•001
	228.0	531609.0	24122.2	-1.021	61.592	•687	.273	40.832	14.007	.001
	229.0	531192.3	24122.8	-1.021	61.604	.978	.320	40.520	14.014	.001
	230.0	530775.2	24123.3	-1.022	61.616	1.139	.282	40.224	14.022	.001
	231.0	530357.8	24123.8	-1.023	61.627	1.266	•305	39.935	14.030	.001
	232.0	529940.1	24124.4	-1.024	61.639	1.402	.367	39.646	14.039	.001
	233.0	529522.0	24124.9	-1.025	61.651	1.505	.389	39.361	14.047	•001
	234.0	529103.7	24125.4	-1.025	61.663	1.601	•406	39.087	14.055	•001
	235.0	528685.0	24126.0	-1.026	61.675	1.698	.429	38.845	14.063	.001
	236.0	528265.9	24126.5	-1.027	61.687	1.793	.446	38.670	14.071	.001
	237.0	527846.6	24127.1	-1.028	61.699	1.886	. 459	38.549	14.079	.001
= .	238.0	527426.8	24127.6	-1.029	61.711	1.969	• 460	38.483	14.088	•001
	239.0	527006.8	24128.2	-1.030	61.723	2.059	•469	38.459	14.096	.001

CSEC CFT CFPS CDEG CDEG CDEG CDEG CDEG CDEG CDEG C-5		TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	OA
240.0 526586.4 24128.7 -1.031 61.736 2.137 .477 38.460 14.104 .001 241.0 526165.7 24129.3 -1.031 61.748 2.214 .481 38.497 14.113 .001 242.0 526744.7 24129.8 -1.032 61.760 2.159 .472 38.596 14.121 .001 243.0 525323.3 24130.3 -1.033 61.772 1.965 .370 38.747 14.129 .001 244.0 524901.6 24130.9 -1.034 61.785 1.793 .269 38.895 14.138 .001 245.0 524470.6 24131.4 -1.035 61.797 1.609 .104 39.051 14.146 .001 246.0 524057.3 24131.9 -1.036 61.809 1.424 .002 39.208 14.155 .001 247.0 523634.7 24132.5 -1.036 61.809 1.424 .002 39.208 14.155 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052 -1.490 39.363 14.164 .001 248.0 523211.7 24133.6 -1.038 61.847 .864 -225 39.683 14.181 .001 250.0 52364.9 24134.1 -1.039 61.857 .864 -225 39.886 14.191 .001 250.0 52364.9 24134.7 -1.039 61.857 .864 -255 39.886 14.190 .001 250.0 52366.9 24134.7 -1.039 61.857 .669 -306 40.027 14.198 .001 251.0 521941.0 24134.7 -1.039 61.855 .638 -195 40.211 14.207 .001 252.0 521516.9 24135.2 -1.040 61.885 .638 -195 40.211 14.207 .001 252.0 521516.9 24135.7 -1.041 61.897 .626 -0.099 40.405 14.216 .001 255.0 52067.6 24136.2 -1.042 61.910 .612 -0.01 40.595 14.225 .001 255.0 52067.5 24136.8 -1.043 61.923 .594 .098 40.785 14.223 .001 255.0 519817.0 24137.9 -1.044 61.987 .626 -0.099 40.405 14.224 .001 255.0 518695.3 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 255.0 518939.3 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 259.0 518959.0 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 259.0 518959.0 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 260.0 518112.5 24139.5 -1.046 61.974 .468 .313 41.441 14.279 .001 260.0 51812.5 24139.5 -1.046 61.974 .468 .313 41.441 14.279 .001 260.0 51859.0 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 260.0 51859.0 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 260.0 51859.0 24138.9 -1.046 61.974 .468 .313 41.441 14.279 .001 260.0 51859.0 24138.9 -1.046 62.065 .000 .349 .221 41.559 14.288 .001 260.0 518547.1 24142.7 -1.051 62.065 .000 .349 .221 41.549 14.288 .001 260.0 516680.6 24440.0 -1.046 62.065 .000 .349 .22											(PSF)
241.0 526165.7 24129.3 -1.031 61.748 2.214 .481 38.497 14.113 .001 242.0 525744.7 24129.8 -1.032 61.760 2.159 .472 38.596 14.121 .001 243.0 525323.3 24130.3 -1.033 61.772 1.965 .370 38.747 14.129 .001 244.0 525323.3 24130.9 -1.034 61.785 1.793 .269 38.895 14.138 .001 245.0 524901.6 24130.9 -1.034 61.785 1.793 .269 38.895 14.138 .001 245.0 524979.6 24131.4 -1.035 61.809 1.424 .062 39.208 14.155 .001 246.0 524957.3 24131.9 -1.036 61.809 1.424 .062 39.208 14.155 .001 247.0 523647.7 24132.5 -1.036 61.809 1.424 .062 39.208 14.155 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052 -1.49 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .664 -256 39.683 14.181 .001 250.0 52364.9 24134.1 -1.039 61.859 .707 -345 39.846 14.190 .001 250.0 52364.9 24134.1 -1.039 61.859 .707 -345 39.846 14.190 .001 250.0 521941.0 24135.2 -1.040 61.885 .638 -1.95 40.211 14.207 .001 252.0 521516.9 24135.2 -1.040 61.885 .638 -1.95 40.211 14.207 .001 253.0 521092.4 24135.2 -1.042 61.910 .612 -0.09 40.405 14.216 .001 255.0 520242.5 24136.8 -1.043 61.923 .594 .098 40.785 14.225 .001 255.0 520242.5 24136.8 -1.043 61.923 .594 .098 40.785 14.234 .001 255.0 519817.0 24137.3 -1.043 61.923 .594 .098 40.785 14.234 .001 255.0 519817.0 24137.3 -1.043 61.923 .594 .098 40.785 14.225 .001 255.0 519817.0 24137.3 -1.043 61.948 .556 .295 41.185 14.252 .001 255.0 519817.0 24137.3 -1.043 61.948 .556 .295 41.185 14.252 .001 255.0 519817.0 24137.3 -1.043 61.948 .556 .295 41.185 14.251 .001 255.0 519817.0 24137.3 -1.043 61.948 .556 .295 41.185 14.251 .001 255.0 519817.0 24137.3 -1.046 61.948 .556 .295 41.185 14.261 .001 255.0 519817.0 24137.9 -1.046 61.948 .556 .295 41.185 14.261 .001 255.0 519817.0 24137.9 -1.046 61.948 .556 .295 41.185 14.261 .001 255.0 519575.1 24142.2 -1.046 62.000 .349 .221 41.549 14.288 .001 255.0 519575.2 24136.2 -1.046 62.000 .349 .221 41.549 14.288 .001 255.0 519575.4 24140.5 -1.046 62.000 .349 .221 41.549 14.288 .001 265.0 515975.4 24141.1 -1.048 62.005 .000 .001 41.472 14.316 .001 265.0 515849.6 24143.8 -1.052 62.005 .000 .004 41.272 1						10101					and the second s
241.0 526165,7 24129,3 -1.031 61.748 2.214 .481 38.497 14.113 .001 242.0 525744.7 24129.8 -1.032 61.760 2.159 .472 38.596 14.121 .001 243.0 525323.3 24130.3 -1.033 61.772 1.965 .370 38.747 14.129 .001 244.0 524901.6 24130.9 -1.034 61.785 1.793 .269 38.895 14.138 .001 245.0 524479.6 24131.4 -1.035 61.797 1.609 .164 39.051 14.146 .001 246.0 524057.3 24131.9 -1.036 61.809 1.424 .062 39.208 14.155 .001 247.0 523634.7 24132.5 -1.036 61.809 1.424 .062 39.208 14.155 .001 249.0 523211.7 24133.0 -1.037 61.834 1.052 -1.49 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .664256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.847 .664256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.872 .649306 40.027 14.198 .001 250.0 522364.9 24134.1 -1.039 61.872 .649306 40.027 14.198 .001 252.0 521516.9 24135.7 -1.040 61.885 .638195 40.211 14.207 .001 253.0 52194.0 24135.7 -1.041 61.885 .638195 40.211 14.207 .001 253.0 521092.4 24135.7 -1.041 61.885 .638195 40.211 14.207 .001 255.0 520667.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520667.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520542.5 24136.8 -1.043 61.923 .594 .098 40.785 14.225 .001 255.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.243 .001 255.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.243 .001 255.0 519817.0 24137.9 -1.044 61.948 .556 .295 41.185 14.225 .001 255.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.243 .001 255.0 519817.0 24137.9 -1.044 61.948 .556 .295 41.185 14.227 .001 255.0 519817.0 24137.9 -1.044 61.948 .556 .295 41.185 14.227 .001 255.0 518959.3 24138.4 -1.045 61.948 .556 .295 41.185 14.227 .001 255.0 518959.3 24138.4 -1.045 61.948 .556 .295 41.185 14.270 .001 255.0 518959.3 24138.4 -1.045 61.948 .556 .295 41.185 14.227 .001 255.0 518959.3 24138.4 -1.045 61.948 .556 .295 41.185 14.234 .001 255.0 518959.3 24138.4 -1.045 61.948 .556 .295 41.185 14.279 .001 255.0 518959.3 24138.4 -1.045 61.946 .2001 .277 .468 .313 41.441 14.270 .001 255.0 518959.3 24138.4 -1.045 61.948 .		240.0	526586 • 4	24128.7	-1.031	61.736	2.137	.477	38.460	14.104	•001
242.0 525744.7 24129.8 -1.032 61.760 2.159 4.72 38.596 14.121 .001 244.0 525323.3 24130.3 -1.033 61.772 1.965 .370 38.747 14.129 .001 244.0 524901.6 24130.9 -1.034 61.785 1.793 .269 38.895 14.138 .001 245.0 524976.6 24131.4 -1.035 61.797 1.609 .164 39.051 14.146 .001 246.0 524057.3 24131.9 -1.036 61.809 1.424 .062 39.208 14.155 .001 247.0 523634.7 24132.5 -1.036 61.822 1.240040 39.363 14.164 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052149 39.525 14.172 .001 249.0 522368.5 24133.6 -1.038 61.872 .864256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.859 .707345 39.886 14.190 .001 251.0 52194.0 24135.7 -1.039 61.872 .649306 40.027 14.198 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 252.0 521092.4 24135.7 -1.041 61.897 .626099 40.405 14.216 .001 255.0 520242.5 24136.8 -1.042 61.910 .612001 40.595 14.225 .001 255.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.223 .001 255.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.225 .001 255.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.225 .001 255.0 518659.0 24138.9 -1.044 61.948 .556 .295 41.185 14.225 .001 255.0 518639.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 255.0 518639.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 250.0 518539.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518630.0 24138.9 -1.046 61.987 .407 .267 41.518 14.279 .001 260.0 518630.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518630.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518630.0 24138.9 -1.046 61.987 .407 .267 41.518 14.279 .001 260.0 518630.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518630.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518630.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518630.0 24138.9 -1.046 62.026 .213 .125 41.502 14.307 .001 260.0 516696.0 24140.0 -1.047 62.000 .349 .221 41.549 14.288 .001 265.0 515698.0 24140.5 -1.051 62.065 .000 .349 .221 41.549 14.288 .001 265.0 516698.6 24140.8 -1.055 62.092 .074 .025			526165.7	24129.3	-1.031	61.748	2.214	.481	38.497	14.113	•001
243.0 525323.3 24130.3 -1.033 61.772 1.965 .370 38.747 14.129 .001 244.0 524901.6 24130.9 -1.034 61.785 1.773 .269 38.895 14.138 .001 245.0 524479.6 24131.4 -1.035 61.797 1.609 .164 39.051 14.146 .001 246.0 524057.3 24131.9 -1.036 61.809 1.424 .062 39.208 14.155 .001 247.0 523634.7 24132.5 -1.036 61.822 1.240040 39.363 14.164 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052 -1.49 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .864256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.859 .707345 39.846 14.190 .001 251.0 521941.0 24134.7 -1.039 61.872 .649306 40.027 14.198 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 253.0 521092.4 24135.7 -1.041 61.897 .626099 40.405 14.216 .001 254.0 52067.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520242.5 24136.8 -1.043 61.923 .594 .098 40.785 14.234 .001 255.0 519817.0 24137.3 -1.043 61.923 .594 .098 40.785 14.234 .001 255.0 519817.0 24137.3 -1.043 61.923 .594 .098 40.785 14.234 .001 255.0 519817.0 24138.9 -1.044 61.948 .556 .295 41.185 14.252 .001 259.0 518965.3 24138.4 -1.045 61.961 .521 .340 41.320 14.241 .001 259.0 518965.3 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518112.5 24139.5 -1.046 61.987 .407 .267 41.518 14.279 .001 261.0 517685.6 24140.0 -1.047 62.000 .349 .221 41.549 14.281 .001 262.0 515631. 24141.1 -1.048 62.013 .279 .174 41.535 14.297 .001 263.0 516831.1 24141.1 -1.048 62.003 .279 .174 41.535 14.297 .001 263.0 516831.1 24141.1 -1.048 62.003 .279 .174 41.535 14.297 .001 264.0 516403.4 24141.6 -1.049 62.039 .149 .081 41.423 14.325 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 265.0 515975.4 24142.7 -1.051 62.055 .000031 41.347 14.335 .001 265.0 51518.5 24143.8 -1.052 62.055 .000031 41.347 14.335 .001 265.0 51548.5 24143.8 -1.052 62.055 .000031 41.347 14.335 .001 265.0 51548.6 24143.8 -1.052 62.055 .000031 41.347 14.335 .001 265.0 51548.6 24143.8 -1.052 62.092143140 41.201 14.354 .001				24129.8	-1.032	61.760	2.159	.472	38.596	14.121	.001
245.0 524479.6 24131.4 -1.035 61.797 1.609 .164 39.051 14.146 .001 246.0 524057.3 24131.9 -1.036 61.809 1.424 .062 39.208 14.155 .001 247.0 523634.7 24132.5 -1.036 61.809 1.424 .062 39.208 14.155 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052 -1.149 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .864256 39.683 14.181 .001 250.0 522364.9 24133.6 -1.039 61.859 .707345 39.886 14.190 .001 251.0 521941.0 24134.7 -1.039 61.859 .707345 39.886 14.190 .001 251.0 521941.0 24135.7 -1.039 61.875 .649306 40.027 14.198 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 252.0 521516.9 24135.7 -1.041 61.897 .626099 40.405 14.216 .001 252.0 520567.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 252.0 520567.5 24136.8 -1.043 61.923 .594 .098 40.785 14.234 .001 252.0 520567.5 24136.8 -1.043 61.923 .594 .098 40.785 14.234 .001 252.0 518917.0 24137.3 -1.043 61.936 .572 .195 40.982 14.243 .001 252.0 518959.0 518539.0 24138.9 -1.044 61.948 .556 .295 41.185 14.225 .001 253.0 518965.3 24138.4 -1.045 61.961 .521 .340 41.320 14.261 .001 253.0 51859.0 518539.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518112.5 24139.5 -1.046 61.974 .468 .313 41.441 14.270 .001 261.0 517685.6 24140.5 -1.048 62.013 .279 .174 41.535 14.297 .001 263.0 516831. 24141.1 -1.046 62.026 .213 .227 41.549 14.288 .001 263.0 516831. 24141.1 -1.046 62.026 .213 .227 41.549 14.288 .001 264.0 51603.4 24141.6 -1.049 62.039 .149 .081 41.472 14.355 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 266.0 515975.4 24142.2 -1.051 62.005 .000031 41.347 14.335 .001 266.0 515975.4 24142.2 -1.051 62.005 .000031 41.347 14.335 .001 266.0 51548.5 24143.8 -1.052 62.055 .000031 41.240 14.251 14.354 .001		243.0	525323.3	24130.3	-1.033	61.772	1.965	.370	38.747	14.129	•001
246.0 524057.3 24131.9 -1.036 61.809 1.424 .062 39.208 14.155 .001 247.0 523634.7 24132.5 -1.036 61.822 1.240040 39.363 14.164 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052149 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .864256 39.683 14.181 .001 250.0 522788.5 24133.6 -1.039 61.859 .707345 39.846 14.190 .001 251.0 521941.0 24134.7 -1.039 61.859 .707345 39.846 14.190 .001 251.0 521941.0 24134.7 -1.039 61.872 .669306 40.027 14.198 .001 253.0 521941.0 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 253.0 521092.4 24135.7 -1.041 61.897 .626099 40.405 14.216 .001 253.0 521092.4 24135.7 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520242.5 24136.8 -1.043 61.923 .594 .098 40.785 14.225 .001 256.0 519817.0 24137.3 -1.043 61.933 .572 .195 40.982 14.224 .001 257.0 519391.3 24137.9 -1.044 61.948 .556 .295 41.185 14.252 .001 258.0 518965.3 24138.4 -1.045 61.961 .521 .340 41.320 14.261 .001 259.0 518539.0 24138.4 -1.045 61.961 .521 .340 41.320 14.261 .001 260.0 518112.5 24139.5 -1.046 61.987 .468 .313 41.441 14.270 .001 260.0 518112.5 24139.5 -1.046 61.987 .407 .267 41.518 14.279 .001 260.0 51865.6 24140.0 -1.047 62.000 .349 .221 41.549 14.288 .001 260.0 51865.6 24140.5 -1.048 62.013 .279 .174 41.535 14.279 .001 263.0 516603.1 24141.1 -1.048 62.026 .213 .125 41.502 14.307 .001 264.0 516403.4 24141.6 -1.049 62.039 .149 .081 41.472 14.316 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 266.0 515975.4 24142.7 -1.051 62.005 .000031 41.347 14.335 .001 267.0 51518.5 24143.2 -1.050 62.055 .000031 41.347 14.335 .001 268.0 514689.6 24143.8 -1.052 62.092143140 41.201 14.354 .001		244.0	524901.6	24130.9	-1.034	61.785	1.793	.269			.001
247.0 523634.7 24132.5 -1.036 61.022 1.240040 39.363 14.164 .001 248.0 523211.7 24133.0 -1.037 61.834 1.052149 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .864256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.859 .707345 39.846 14.190 .001 251.0 521941.0 24134.7 -1.039 61.859 .707345 39.846 14.190 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.021 14.207 .001 254.0 52067.6 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 254.0 520667.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520242.5 24136.8 -1.043 61.923 .594 .098 40.785 14.225 .001 257.0 519391.3 24137.9 -1.044 61.936 .572 .195 40.982 14.243 .001 257.0 519391.3 24137.9 -1.044 61.936 .572 .195 40.982 14.243 .001 259.0 518965.3 24138.4 -1.045 61.961 .521 .340 41.320 14.261 .001 259.0 518539.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518112.5 24139.5 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 51816.5 24139.5 -1.046 61.974 .468 .313 41.441 14.270 .001 261.0 517685.6 24140.0 -1.047 62.000 .349 .221 41.549 14.288 .001 262.0 516331.1 24141.1 -1.048 62.026 .213 .125 41.549 14.288 .001 263.0 516831.1 24141.1 -1.048 62.026 .213 .125 41.549 14.288 .001 263.0 516831.1 24141.1 -1.048 62.026 .213 .125 41.549 14.288 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.335 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.335 .001 265.0 51588.5 24140.5 -1.048 62.026 .213 .125 41.549 14.335 .001 265.0 51588.5 24140.5 -1.048 62.026 .213 .125 41.549 14.335 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.335 .001 265.0 51588.5 24140.5 -1.049 62.055 .000031 41.547 14.316 .001 265.0 51588.5 24140.5 -1.048 62.005 .000031 41.547 14.316 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.335 .001 265.0 51588.5 24140.5 -1.049 62.059 .000031 41.547 14.335 .001 266.0 51588.5 24140.5 -1.049 62.059 .000031 41.547 14.335 .001 268.0 51468.6 24143.8 -1.055 62.092143140 41.201 14.354 .001		245.0	524479.6	24131.4	-1.035	61.797	1.609	•164	39.051		
248.0 523211.7 24133.0 -1.037 61.834 1.052149 39.525 14.172 .001 249.0 522788.5 24133.6 -1.038 61.847 .864256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.857 .707345 39.846 14.190 .001 251.0 521941.0 24134.7 -1.039 61.852 .649306 40.027 14.198 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 253.0 521092.4 24135.7 -1.041 61.897 .626099 40.405 14.216 .001 255.0 520667.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520242.5 24136.8 -1.043 61.936 .572 .195 40.982 14.243 .001 256.0 519817.0 24137.3 -1.043 61.936 .572 .195 40.982 14.243 .001 257.0 519391.3 24137.9 -1.044 61.948 .556 .295 41.185 14.252 .001 259.0 518539.0 24138.4 -1.045 61.961 .521 .340 41.320 14.261 .001 259.0 518539.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518112.5 24139.5 -1.046 61.987 .407 .267 41.518 14.279 .001 261.0 517685.6 24140.0 -1.047 62.000 .349 .221 41.549 14.288 .001 262.0 517258.5 24140.5 -1.048 62.013 .279 .174 41.535 14.297 .001 263.0 51603.4 24141.6 -1.049 62.039 .149 .081 41.472 14.316 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 267.0 515118.5 24143.8 -1.051 62.052 .074 .025 41.423 14.325 .001 267.0 515118.5 24143.2 -1.051 62.052 .074 .025 41.423 14.325 .001 268.0 514689.6 24143.8 -1.052 62.002143140 41.271 14.335 .001		246.0	524057.3	24131.9	-1.036	61.809	1.424	•062	39.208		
249.0 522788.5 24133.6 -1.038 61.847 .864256 39.683 14.181 .001 250.0 522364.9 24134.1 -1.039 61.859 .707345 39.846 14.190 .001 251.0 521941.0 24134.7 -1.039 61.872 .649306 40.027 14.198 .001 252.0 521516.9 24135.2 -1.040 61.885 .638195 40.211 14.207 .001 253.0 521092.4 24135.7 -1.041 61.897 .626099 40.405 14.216 .001 254.0 520667.6 24136.2 -1.042 61.910 .612001 40.595 14.225 .001 255.0 520242.5 24136.8 -1.043 61.923 .594 .098 40.785 14.225 .001 255.0 519817.0 24137.3 -1.043 61.923 .594 .098 40.785 14.234 .001 258.0 519817.0 24137.3 -1.044 61.948 .556 .295 41.185 14.252 .001 258.0 518965.3 24138.4 -1.045 61.961 .521 .340 41.320 14.261 .001 259.0 518539.0 24138.9 -1.046 61.974 .468 .313 41.441 14.270 .001 260.0 518112.5 24139.5 -1.046 61.987 .407 .267 41.518 14.270 .001 262.0 517258.5 24140.0 -1.047 62.000 .349 .221 41.549 14.288 .001 263.0 516631.1 24141.1 -1.048 62.026 .213 .125 41.502 14.307 .001 264.0 516403.4 24141.6 -1.049 62.039 .149 .081 41.472 14.316 .001 265.0 51575.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 265.0 515975.4 24142.2 -1.050 62.052 .074 .025 41.423 14.325 .001 267.0 515118.5 24143.2 -1.051 62.065 .000031 41.247 14.335 .001 268.0 514689.6 24143.8 -1.052 62.092143140 41.201 14.354 .001		247.0	523634.7	24132.5	-1.036	61.822	1.240	040		14.164	
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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
		£1.0000 0	-57177-5-							
	270.0	513830.9	24144.9	-1.054	62.118	303	246	41.062	14.373	• 001
	271.0	513401.1	24145.4	-1.055	62.132	377	300	40.994	14.382	•001
	272.0	512971.0	24145.9	-1.055	62.145	465	357	40.930	14.392	•001
	273.0	512540.6	24146.5	-1.056	62.158	512	381	40.869	14.402	•001
	274.0	512109.9	24147.1	-1.057	62.172	467	312	40.830	14.411	•001
	275.0	511678.9	24147.6	-1.058	62.185	394	225	40.793	14.421	•001
	276.0	511247.6	24148.2	-1.058	62.199	332	133	40.763	14.431	•001
	277.0	510816.0	24148.7	-1.059	62.212	270	046	40.733	14.441	.001
	278.0	510384.1	24149.2	-1.060	62.226	196	.038	40.699	14.451	.001
	279.0	509952.0	24149.8	-1.061	62.240	125	.124	40.675	14.461	.001
	280.0	509519.5	24150.3	-1.061	62.253	069	•211	40.648	14.471	•001
	281.0	509086.7	24150.9	-1.062	62.267	.001	•305	40.624	14.481	• 001
	282.0	508653.7	24151.4	-1.063	62.281	•055	•352	40.604	14.491	•001
9	283.0	508220.3	24152.0	-1.064	62.295	.097	.369	40.588	14.501	.001
94-	284.0	507786.7	24152.5	-1.064	62.308	.140	.385	40.564	14.512	•001
	285.0	507352.8	24153.1	-1.065	62.322	.197	.414	40.551	14.522	•001
	286.0	506918.5	24153.6	-1.066	62.336	.232	•433	40.537	14.532	•001
	287.0	506484.0	24154.2	-1.066	62.350	•260	.391	40.517	14.543	•001
	288.0	506049.2	24154.7	-1.067	62.364	•275	.278	40.508	14.553	•001
	289.0	505614.1	24155.3	-1.068	62.378	.287	.168	40.497	14.564	•001
	290.0	505178.7	24155.8	-1.069	62.392	.289	•054	40.491	14.574	.001
	291.0	504743.1	24156.4	-1.069	62.406	•312	056	40.483	14.585	•001
	292.0	504307.1	24156.9	-1.070	62.420	.314	163	40.476	14.595	•001
	293.0	503870.9	24157.5	-1.071	62.435	•331	243	40.476	14.606	•001
	294.0	503434.3	24158.1	-1.072	62.449	.364	266	40.474	14.617	.001
	295.0	502997.5	24158.6	-1.072	62.463	.406	239	40.475	14.628	.001
	296.0	502560.4	24159.2	-1.073	62.477	.446	211	40.486	14.638	•001
	297.0	502123.0	24159.7	-1.074	62.492	.484	192	40.489	14.649	•001
	298.0	501685.4	24160.3	-1.074	62.506	•521	170	40.495	14.660	•001
	299.0	501247.4	24160.8	-1.075	62.520	•554	151	40.507	14.671	.001
							and the second second second			

en 1998 1111-11	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	300.0	500809.2	24161.4	-1.076	62.535	.597	128	40.516	14.682	•001
	301.0	500370.7	24161.9	-1.077	62.549	•631	103	40.534	14.694	•001
	302.0	499931.9	24162.5	-1.077	62.564	.663	082	40.547	14.705	.001
	303.0	499492.8	24163.0	-1.078	62.578	.691	064	40.570	14.716	•001
	304.0	499053.4	24163.6	-1.079	62.593	•726	046	40.588	14.727	.001
	305.0	498613.8	24164.1	-1.079	62.608	•761	018	40.613	14.739	• 001
	306.0	498173.9	24164.7	-1.080	62.622	•786	•001	40.641	14.750	• 001
	307.0	497733.7	24165.3	-1.081	62.637	•820	•020	40.662	14.762	.001
	308.0	497293.2	24165.8	-1.081	62.652	.850	.041	40.694	14.773	.001
	309.0	496852.4	24166.4	-1.082	62.666	.873	•061	40.725	14.785	.001
	310.0	496411.4	24166.9	-1.083	62.681	•906	.081	40.759	14.796	.001
	311.0	495970.1	24167.5	-1.084	62.696	.929	.099	40.792	14.808	•001
	312.0	495528.5	24168.1	-1.084	62.711	.956	•112	40.836	14.820	•001
1	313.0	495086.6	24168.6	-1.085	62.726	.987	.133	40.877	14.832	.001
95	314.0	494644.5	24169.2	-1.086	62.741	1.000	.149	40.908	14.844	•001
•	315.0	494202.1	24169.7	-1.086	62.756	1.026	.165	40.897	14.856	•001
	316.0	493759.4	24170.3	-1.087	62.771	1.044	.182	40.893	14.868	•001
	317.0	493316.5	24170.9	-1.088	62.786	1.064	.192	40.885	14.880	.001
	318.0	492873.2	24171.4	-1.088	62.801	1.086	•203	40.879	14.892	.001
	319.0	492429.8	24172.0	-1.089	62.816	1.103	.219	40.875	14.904	.001
	320.0	491986.0	24172.5	-1.090	62.831	1.117	.230	40.874	14.916	.001
	321.0	491542.0	24173.1	-1.090	62.847	1.129	.242	40.878	14.929	•001
	322.0	491097.7	24173.7	-1.091	62.862	1.143	.254	40.880	14.941	•001
	323.0	490653.1	24174.2	-1.092	62.877	1.155	.264	40.888	14.954	•001
	324.0	490208.3	24174.8	-1.092	62.893	1.170	.275	40.897	14.966	.001
	325.0	489763.2	24175.3	-1.093	62.908	1.187	.287	40.903	14.979	•001
	326.0	489317.8	24175.9	-1.094	62.923	1.193	.301	40.920	14.992	.001
	327.0	488872.2	24176.5	-1.094	62.939	1.202	.306	40.905	15.004	.001
	328.0	488426.3	24177.0	-1.095	62.954	1.207	•309	40.871	15.017	•001
	329.0	487980.1	24177.6	-1.096	62.970	1.212	•322	40.834	15.030	.001

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA.

PAGE 12

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	330.0	487533.7	24178.2	-1.096	62.986	1.212	•329	40.799	15.043	•001
	331.0	487087.0	24178.7	-1.097	63.001	1.219	•332	40.768	15.056	•001
_	332.0	486640.1	24179.3	-1.098	63.017	1.225	.341	40.747	15.069	.001
	333.0	486192.9	24179.8	-1.098	63.032	1.224	•337	40.718	15.082	•001
	334.0	485745.4	24180.4	-1.099	63.048	1.225	•343	40.697	15.096	•001
	335.0	485297.7	24181.0	-1.100	63.064	1.226	•350	40.676	15.109	•001
	336.0	484849.7	24181.6	-1.100	63.080	1.223	.351	40.657	15.122	•001
	337.0	484401.4	24182.1	-1.101	63.096	1.219	•353	40.642	15.136	.001
	338.0	483952.8	24182.7	-1.102	63.112	1.217	.357	40.629	15.149	.001
	339.0	483504.0	24183.2	-1.102	63.127	1.215	•361	40.618	15.163	.001
	340.0	483054.9	24183.8	-1.103	63.143	1.211	•366	40.609	15.177	•001
	341.0	482605.6	24184.4	-1.104	63.159	1.206	•369	40.600	15.190	• 001
	342.0	482156.0	24185.0	-1.104	63.175	1.198	•370	40.592	15.204	•001
-9	343.0	481706.2	24185.5	-1.105	63.191	1.189	.370	40.587	15.218	•001
	344.0	481256.1	24186.1	-1.105	63.208	1.181	.375	40.590	15.232	•001
	345.0	480805.7	24186.7	-1.106	63.224	1.177	.377	40.592	15.246	•001
	346.0	480355.1	24187.2	-1.107	63.240	1.168	•376	40.592	15.260	•001
	347.0	479904.3	24187.8	-1.107	63.256	1.154	.379	40.593	15.275	•001
	348.0	479453.2	24188.4	-1.108	63.272	1.142	.378	40.602	15.289	•001
	349.0	479001.8	24189.0	-1.109	63.289	1.134	.376	40.615	15.303	•001
	350.0	478550.1	24189.5	-1.109	63.305	1.121	.378	40.629	15.318	.001
	351.0	478098.3	24190.1	-1.110	63.321	1.100	.378	40.643	15.332	•001
	352.0	477646.1	24190.7	-1.111	63.338	1.088	•379	40.657	15.347	•001
	353.0	477193.8	24191.3	-1.111	63.354	1.077	•374	40.674	15.362	•001
	354.0	476741.1	24191.8	-1.112	63.371	1.054	.375	40.695	15.377	.001
	355.0	476288.2	24192.4	-1.112	63.387	1.038	.372	40.718	15.392	•001
	356.0	475835.1	24193.0	-1.113	63.404	1.022	.370	40.746	15.406	.001
	357.0	475381.7	24193.6	-1.114	63.420	1.000	.372	40.769	15.422	•001
	358.0	474928.0	24194.1	-1.114	63.437	•982	•364	40.802	15.437	•001
	359.0	474474.2	24194.7	-1.115	63.454	•961	•364	40.828	15.452	•001

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	360.0	474020.0	24195.3	-1.116	63.470	.939	•358	40.864	15.467	.001
	361.0	473565.6	24195.9	-1.116	63.487	.921	• 351	40.896	15.483	•001
	362.0	473111.0	24196.4	-1.117	63.504	.887	.348	40.933	15.498	.001
	363.0	472656.2	24197.0	-1.117	63.521	.870	.346	40.946	15.514	.002
	364.0	472201.0	24197.6	-1.118	63.538	.835	.330	40.929	15.530	• 002
	365.0	471745.7	24198.1	-1.118	63.555	.816	• 320	40.917	15.545	.002
	366.0	471290.1	24198.7	-1.119	63.572	.788	•315	40.909	15.561	• 002
	367.0	470834.3	24199.3	-1.120	63.589	•751	•305	40.902	15.577	.002
	368.0	470378.2	24199.9	-1.120	63.606	.719	.293	40.894	15.593	.002
-	369.0	469921.9	24200.5	-1.121	63.623	.684	.287	40.893	15.610	• 002
	370.0	469465.3	24201.0	-1.122	63.640	.655	.274	40.896	15.626	• 002
	371.0	469008.5	24201.6	-1.122	63.657	.623	• 262	40.897	15.642	.002
	372.0	468551.5	24202.2	-1.123	63.674	•587	•253	40.901	15.659	• 002
9	373.0	468094.2	24202.8	-1.123	63.691	.549	.243	40.895	15.675	.002
7-	374.0	467636.6	24203.4	-1.124	63.709	.515	•230	40.879	15.692	• 002
	375.0	467178.9	24203.9	-1.125	63.726	.475	.213	40.861	15.709	• 002
	376.0	466720.9	24204.5	-1.125	63.743	.426	.196	40.845	15.726	• 002
	377.0	466262.6	24205.1	-1.126	63.761	.394	.183	40.837	15.742	.002
	378.0	465804.1	24205.7	-1.126	63.778	•347	•165	40.823	15.760	.002
	379.0	465345.4	24206.3	-1.127	63.795	•305	.154	40.823	15.777	• 002
	380.0	464886.5	24206.8	-1.127	63.813	.267	.139	40.813	15.794	.002
	381.0	464427.2	24207.4	-1.128	63.830	.218	.123	40.813	15.811	.002
	382.0	463967.8	24208.0	-1.129	63.848	.178	.103	40.805	15.829	.002
	383.0	463508.1	24208.6	-1.129	63.866	.128	.087	40.812	15.847	.002
	384.0	463048.2	24209.2	-1.130	63.883	.075	.068	40.813	15.864	.002
	385.0	462588.1	24209.7	-1.130	63.901	.032	.054	40.815	15.882	•002
	386.0	462127.7	24210.3	-1.131	63.918	024	.038	40.826	15.900	• 002
	387.0	461667.1	24210.9	-1.131	63.936	063	.015	40.837	15.918	•002
	388.0	461206.3	24211.5	-1.132	63.954	121	001	40.850	15.936	.002
	389.0	460745.2	24212.1	-1.133	63.972	172	016	40.858	15.955	.002
					 					

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	390.0	460283.9	24212.7	-1.133	63.990	225	036	40.871	15.973	• 002
	391.0	459822.4	24213.3	-1.134	64.008	280	061	40.892	15.992	•002
****	392.0	459360.6	24213.8	-1.134	64.026	333	082	40.916	16.010	•002
	393.0	458898.7	24214.4	-1.135	64.044	387	103	40.902	16.029	•002
	394.0	458436.5	24215.0	-1.135	64.062	448	122	40.863	16.048	•002
	395.0	457974.1	24215.6	-1.136	64.080	513	154	40.841	16.067	•002
	396.0	457511.4	24216.2	-1.136	64.098	578	184	40.817	16.086	•002
	397.0	457048.6	24216.7	-1.137	64.116	639	204	40.789	16.105	•002
	398.0	456585.5	24217.3	-1.138	64.134	699	226	40.770	16.125	•002
	399.0	456122.1	24217.9	-1.138	64.152	760	254	40.751	16.144	•002
	400.0	455658.6	24218.5	-1.139	64.171	836	284	40.729	16.164	•002
	401.0	455194.8	24219.1	-1.139	64.189	897	310	40.721	16.184	•002
	402.0	454730.8	24219.7	-1.140	64.207	966	346	40.712	16.203	•002
	403.0	454266.5	24220.3	-1.140	64.225	-1.027	377	40.699	16.223	•002
98	404.0	453802.1	24220.9	-1.141	64.244	-1.098	398	40.689	16.244	•002
Į.	405.0	453337.4	24221.5	-1.141	64.262	-1.167	423	40.685	16.264	•002
	406.0	452872.5	24222.0	-1.142	64.281	-1.240	454	40.683	16.284	•002
	407.0	452407.4	24222.6	-1.142	64.299	-1.288	463	40.675	16.305	
•	408.0	451942.0	24223•2	-1.143	64.318	-1.199	 346	40.073	16.326	• 002
	409.0	451476.4	24223.8	-1.144	64.336	-1.129	231	40.726	The second of th	• 002
	410.0	451010.6	24224.4	-1.144	64.355	-1.044	114	40.748	16.346	•002
Maria Carra de la	411.0	450544.6	24225.0	-1.145	64.374	966	000	40.772	16.367 16.389	•002
	412.0	450078.4	24225.6	-1.145	64.392	889	•119	40.805	and the second of the second o	•002
	413.0	449612.0	24226.2	-1.146	64.411	807	•237	40.832	16.410	• 002
	414.0	449145.3	24226.8	-1.146	64.430	749		and the second second second second second second second	16.431	•002
	415.0	448678.5	24227.4	-1.147	64.449	715	•278	40.864	16.453	•002
	416.0	448211.4	24228.0	-1.147	64.468	671	• 248	40.892	16.475	•003
	417.0	447744.1	24228.5	-1.148	THE RESERVE AND THE PARTY OF TH	A	•229	40.903	16.496	• 003
	418.0	447276.6	24229.1	-1.148	64.487 64.505	628 589	• 208	40.917	16.518	•003
	419.0	446808.9	24229.7				•186	40.928	16.541	•003
	414.0	77000047	C466401	-1.149	64.524	557	.165	40.940	16.563	•003

PAGE

15

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TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	O A
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
420.0	446340.9	24230.3	-1.149	64.543	522	.137	40.933	16.585	•00
421.0		24230.9	-1.150	64.562	490	.107	40.901	16.608	• 00
422.0		24231.5	-1.150	64.582	458	.074	40.869	16.631	• 00
423.0	THE RESIDENCE OF THE PARTY OF T	24232.1	-1.151	64.601	427	.054	40.840	16.654	• 00
424.0		24232.7	-1.151	64.620	393	.024	40.811	16.677	• 00
425.0		24233.3	-1.152	64.639	370	006	40.786	16.700	•00
426.0		24233.9	-1.152	64.658	344	036	40.760	16.724	• 00
427.0		24234.5	-1.153	64.678	317	068	40.741	16.747	.00
428.0		24235.1	-1.153	64.697	297	099	40.719	16.771	• 00
429.0	ALL STREET, ST	24235.7	-1.154	64.716	272	130	40.706	16.795	• 00
430.0		24236.3	-1.154	64.736	248	159	40.693	16.819	• 00
431.0		24236.8	-1.155	64.755	226	194	40.675	16.843	• 00
432.0		24237.4	-1.155	64.775	196	217	40.660	16.868	•00
433.0		24238.0	-1.156	64.794	179	245	40.649	16.892	.00
9 434.0		24238.7	-1.156	64.814	162	280	40.639	16.917	• 00
435.0		24239.2	-1.157	64.833	137	-,312	40.643	16.942	•00
436.0		24239.8	-1.157	64.853	120	335	40.636	16.968	•00
437.0		24240.4	-1.158	64.873	072	264	40.631	16.993	• 00
438.0		24241.0	-1.158	64.892	023	166	40.630	17.019	.00
439.0		24241.6	-1.159	64.912	.019	072	40.631	17.044	.00
440.0		24242.2	-1.159	64.932	•068	.031	40.634	17.070	.00
441.0	and the second control of the second control	24242.8	-1.160	64.952	•111	.130	40.637	17.097	•00
442.0		24243.4	-1.160	64.971	.159	.226	40.640	17.123	• 00
443.0		24244.0	-1.161	64.991	•211	•338	40.651	17.149	•00
444.0		24244.6	-1.161	65.011	.211	.338	40.661	17.176	•00
445.0		24245.2	-1.162	65.031	•151	.192	40.674	17.203	• 00
446.0		24245.8	-1.162	65.051	•093	.033	40.693	17.230	•00
447.0	CONTRACTOR SERVICE CONTRACTOR SERVICES	24246.4	-1.163	65.071	.031	118	40.709	17.258	• 00
448.0		24247.0	-1.163	65.091	016	244	40.731	17.285	• 00
449.0		24247.6	-1.163	65.112	060	283	40.757	17.313	.00

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA .	
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)	
			-2/2/2	······································							
	450.0	432207.4	24248.2	-1.164	65.132	087	301	40.777	17.341	• 004	
	451.0	431733.1	24248.8	-1.164	65.152	118	327	40.802	17.370	•004	
	452.0	431258.7	24249.4	-1.165	65.172	152	348	40.831	17.398	• 004	
	453.0	430784.1	24250.0	-1.165	65.192	187	373	40.864	17.427	•004	
	454.0	430309.3	24250.6	-1.166	65.213	182	360	40.892	17.456	• 004	
	455.0	429834.3	24251.2	-1.166	65.233	176	342	40.923	17.485	• 004	
	456.0	429359.1	24251.8	-1.167	65.254	171	329	40.935	17.514	.004	
	457.0	428883.7	24252.4	-1.167	65.274	168	306	40.952	17.544	.004	
	458.0	428408.2	24253.0	-1.168	65.294	158	298	40.970	17.574	.004	
	459.0	427932.4	24253.6	-1.168	65.315	158	282	40.970	17.604	•004	
	460.0	427456.5	24254.2	-1.168	65.336	154	270	40.943	17.634	.004	
	461.0	426980.4	24254.8	-1.169	65.356	156	257	40.916	17.665	• 004	
	462.0	426504.1	24255.4	-1.169	65.377	152	248	40.895	17.696	•004	
<u>.</u>	463.0	426027.6	24256.0	-1.170	65.397	152	237	40.873	17.727	.004	
.00	464.0	425551.0	24256.6	-1.170	65.418	161	226	40.848	17.758	• 004	
'	465.0	425074.1	24257.2	-1.171	65.439	161	222	40.830	17.790	• 005	
	466.0	424597.1	24257.8	-1.171	65.460	170	216	40.814	17.822	• 005	
	467.0	424119.9	24258.4	-1.171	65.480	172	202	40.795	17.854	• 005	
	468.0	423642.5	24259.0	-1.172	65.501	183	190	40.779	17.886	.005	
	469.0	423164.9	24259.6	-1.172	65.522	200	188	40.767	17.919	• 005	
	470.0	422687.1	24260.2	-1.173	65.543	210	178	40.760	17.952	• 005	
	471.0	422209.1	24260.9	-1.173	65.564	222	174	40.752	17.985	• 005	
	472.0	421731.0	24261.5	-1.174	65.585	230	171	40.743	18.019	• 005	
	473.0	421252.7	24262.1	-1.174	65.606	247	169	40.739	18.053	•005	
	474.0	420774.2	24262.7	-1.174	65.627	263	170	40.738	18.087	• 005	
	475.0	420295.5	24263.3	-1.175	65.648	281	163	40.746	18.122	.005	
	476.0	419816.6	24263.9	-1.175	65.670	300	161	40.744	18.156	•005	
	477.0	419337.6	24264.5	-1.176	65.691	317	155	40.753	18.191	•005	
	478.0	418858.4	24265.1	-1.176	65.712	336	156	40.752	18.227	•005	
	479.0	418379.0	24265.7	-1.177	65.733	351	156	40.760	18.262	• 006	
									•		

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	OA (PSF)
	480.0	417899.4	24266.3	-1.177	65.755	380	156	40.777	18.298	• 006
	481.0	417419.6	24266.9	-1.177	65.776	395	154	40.783	18.335	•.006
	482.0	416939.7	24267.5	-1.178	65.797	423	154	40.801	18.371	•006
	483.0	416459.6	24268.1	-1.178	65.819	440	153	40.816	18.408	•006
	484.0	415979.3	24268.7	-1.179	65.840	471	154	40.834	18.446	•006
	485.0	415498.9	24269.3	-1.179	65.862	505	159	40.854	18.483	•006
	486.0	415018.3	24269.9	-1.179	65.883	526	163	40.878	18.521	• 006
	487.0	414537.4	24270.5	-1.180	65.905	551	164	40.901	18.560	.006
	488.0	414056.5	24271.1	-1.180	65.926	587	168	40.927	18.598	•006
	489.0	413575.4	24271.8	-1.181	65.948	613	171	40.955	18.637	•006
**	490.0	413094.1	24272.3	-1.181	65.970	656	186	40.945	18.677	•006
	491.0	412612.6	24273.0	-1.181	65.992	692	196	40.918	18.717	• 007
	492.0	412131.0	24273.6	-1.182	66.013	727	206	40.901	18.757	•007
.10	493.0	411649.2	24274.2	-1.182	66.035	768	223	40.883	18.797	•007
01-	494.0	411167.3	24274.8	-1.182	66.057	810	243	40.846	18.838	•007
•	495.0	410685.2	24275.4	-1.183	66.079	860	258	40.801	18.880	•007
	496.0	410202.9	24276.0	-1.183	66.101	900	271	40.769	18.921	•007
	497.0	409720.4	24276.6	-1.184	66.123	949	282	40.728	18.963	• 007
	498.0	409237.8	24277.2	-1.184	66.145	-1.002	306	40.688	19.004	• 008
	499.0	408755.0	24277.8	-1.184	66.167	-1.041	325	40.658	19.045	.008
	500.0	408272.1	24278.4	-1.185	66.189	-1.092	337	40.632	19.087	.008
	501.0	407789.0	24279.0	-1.185	66.211	-1.144	360	40.601	19.129	•008
	502.0	407305.7	24279.6	-1.186	66.233	-1.189	375	40.573	19.171	.008
	503.0	406822.3	24280.3	-1.186	66.255	-1.250	401	40.548	19.214	•008
	504.0	406338.7	24280.9	-1.186	66.278	-1.303	417	40.524	19.257	.008
	505.0	405854.9	24281.5	-1.187	66.300	-1.363	437	40.512	19.300	.008
	506.0	405371.0	24282.1	-1.187	66.322	-1.343	383	40.497	19.343	•009
	507.0	404887.0	24282.7	-1.187	66.345	-1.296	314	40.488	19.387	.009
	508.0	404402.7	24283.3	-1.188	66.367	-1.248	244	40.481	19.430	•009
	509.0	403918.3	24283.9	-1.188	66.389	-1.212	173	40.484	19.474	.009

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
			F AND MANAGEMENT AND A SHARE AND A SHARE AND							
	510.0	403433.8	24284.5	-1.188	66.412	-1.177	105	40.482	19.519	• 009
	511.0	402949.1	24285.1	-1.189	66.434	-1.145	039	40.481	19.563	•009
	512.0	402464.2	24285.7	-1.189	66.457	-1.109	.031	40.488	19.608	• 009
	513.0	401979.2	24286.4	-1.189	66.480	-1.070	• 099	40.492	19.653	•010
	514.0	401494.0	24287.0	-1.190	66.502	-1.064	• 090	40.497	19.699	•010
	515.0	401008.7	24287.6	-1.190	66.525	-1.065	.016	40.504	19.744	•010
	516.0	400523.2	24288.2	-1.191	66.547	-1.058	049	40.510	19.790	.010
	517.0	400037.6	24288.8	-1.191	66.570	-1.061	118	40.519	19.836	.010
	518.0	399551.8	24289.4	-1.191	66.593	-1.069	181	40.532	19.882	.011
	519.0	399065.9	24290.0	-1.192	66.616	-1.075	253	40.543	19.929	.011
	520.0	398579.8	24290.7	-1.192	66.639	-1.087	327	40.557	19.976	•011
	521.0	398093.5	24291.3	-1.192	66.661	-1.017	334	40.586	20.023	.011
	522.0	397607.1	24291.9	-1.193	66.684	925	306	40.618	20.070	•011
<u></u>	523.0	397120.6	24292.5	-1.193	66.707	835	287	40.649	20.117	.011
102	524.0	396633.9	24293.1	-1.193	66.730	745	258	40.688	20.165	•012
1	525.0	396147.1	24293.7	-1.194	66.753	648	231	40.716	20.213	.012
	526.0	395660.1	24294.3	-1.194	66.777	572	210	40.755	20.261	•012
	527.0	395172.9	24294.9	-1.194	66.800	480	183	40.798	20.310	•012
	528.0	394685.6	24295.6	-1.195	66.823	399	173	40.835	20.358	.013
	529.0	394198.2	24296.2	-1.195	66.846	304	143	40.881	20.407	.013
	530.0	393710.7	24296.8	-1.195	66.869	231	121	40.921	20.456	.013
	531.0	393223.0	24297.4	-1.196	66.892	150	107	40.908	20.505	.013
	532.0	392735.1	24298.0	-1.196	66.916	083	097	40.906	20.555	.014
	533.0	392247.2	24298.6	-1.196	66.939	007	079	40.899	20.604	•014
	534.0	391759.1	24299.2	-1.196	66.962	.071	062	40.893	20.654	.014
	535.0	391270.8	24299.8	-1.197	66.986	.143	050	40.888	20.704	.014
	536.0	390782.4	24300.5	-1.197	67.009	.222	030	40.883	20.755	.015
	537.0	390293.9	24301.1	-1.197	67.033	. 297	012	40.885	20.805	.015
	538.0	389805.2	24301.7	-1.198	67.056	• 360	001	40.886	20.856	• 015
	539.0	389316.4	24302.3	-1.198	67.080	•428	•015	40.890	20.906	.015
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TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
540.0	388827.5	24302.9	-1.198	67.104	.495	• 026	40.897	20.957	.016
541.0	388338.4	24303.5	-1.199	67.127	.564	• 041	40.903	21.009	•016
542.0	387849.2	24304.1	-1.199	67.151	.625	.050	40.911	21.060	.016
543.0	387359.8	24304.7	-1.199	67.175	.685	.055	40.909	21.112	•017
544.0	386870.3	24305.3	-1.199	67.198	.744	.065	40.898	21.163	.017
545.0	386380.7	24306.0	-1.200	67.222	.808	.077	40.870	21.215	•017
546.0	385891.0	24306.6	-1.200	67.246	.862	• 082	40.826	21.267	.018
547.0	385401.1	24307.2	-1.200	67.270	•908	.080	40.784	21.319	.018
548.0	384911.1	24307.8	-1.201	67.294	.967	.083	40.746	21.372	.018
549.0	384421.0	24308.4	-1.201	67.318	1.020	.084	40.715	21.424	.019
550.0	383930.7	24309.0	-1.201	67.342	1.070	.109	40.679	21.477	.019
551.0	383440.3	24309.6	-1.201	67.366	1.135	.166	40.641	21.530	• 020
552.0	382949.8	24310.3	-1.202	67.390	1.194	.227	40.605	21.583	.020
553.0	382459.2	24310.9	-1.202	67.414	1.257	.291	40.577	21.636	.020
	381968.4	24311.5	-1.202	67.438	1.320	.355	40.548	21.689	.021
	381477.5	24312.1	-1.203	67.462	1.370	.410	40.520	21.742	.021
555.0	380986.4	24312.7	-1.203	67.487	1.371	.420	40.499	21.796	.022
556.0	380495.3	24313.3	-1.203	67.511	1.320	.371	40.487	21.850	. 022
557.0	380004•0	24313.9	-1.203	67.535	1.258	•324	40.475	21.903	.023
558.0		24314.5	-1.204	67.560	1.199	. 290	40.462	21.957	.023
559.0	379512.5 379021.0	24315.2	-1.204	67.584	1.141	•238	40.451	22.011	.024
560.0	378529.4		-1.204	67.608	1.080	.194	40.445	22.065	.024
561.0	378037.6	24315.8 24316.4	-1.204	67.633	1.013	•143	40.437	22.119	.025
562.0		24317.0	-1.205	67.657	.960	.097	40.430	22.174	• 025
563.0	377545.7		-1.205	67.682	.892	.051	40.427	22.228	.026
564.0	377053.6	24317.6 24318.2	-1.205	67.706	.822	001	40.422	22.282	.026
565.0	376561.5		-1.205	67.731	.765	053	40.417	22.337	.027
566.0	376069.2	24318.8	-1.206	67.756	•696	105	40.420	22.391	. 027
567.0	375576.8	24319.5		67.780	•629	162	40.416	22.446	. 028
568.0	375084.3 374591.7	24320.1 24320.7	-1.206 -1.206	67.805	•551	211	40.414	22.501	.029

* STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. PAGE 20 *

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	570.0	374099.0	24321.3	-1.206	67.830	.481	265	40.416	22.555	.029
	571.0	373606.2	24321.9	-1.207	67.854	•401	320	40.414	22.610	•030
	572.0	373113.2	24322.5	-1.207	67.879	.331	378	40.415	22.665	.031
	573.0	372620.1	24323.1	-1.207	67.904	.263	383	40.421	22.720	•031
	574.0	372126.9	24323.7	-1.207	67.929	.214	312	40.419	22.775	.032
	575.0	371633.6	24324.4	-1.208	67.954	.173	230	40.424	22.829	.033
	576.0	371140.2	24325.0	-1.208	67.979	•127	152	40.427	22.884	•033
	577.0	370646.7	24325.6	-1.208	68.004	•074	083	40.427	22.939	• 034
	578.0	370153.0	24326.2	-1.208	68.029	.015	012	40.431	22.994	.035
	579.0	369659.3	24326.8	-1.209	68.054	034	•060	40.441	23.049	•036
	580.0	369165.4	24327.4	-1.209	68.079	090	.138	40.449	23.104	•037
	581.0	368671.5	24328.0	-1.209	68.105	144	•216	40.457	23.159	•038
	582.0	368177.4	24328.6	-1.209	68.130	219	• 235	40.464	23.214	•038
	583.0	367683.2	24329.3	-1.209	68.155	312	.177	40.470	23.269	•039
10	584.0	367188.9	24329.9	-1.210	68.180	405	•106	40.473	23.324	•040
104-	585.0	366694.5	24330.5	-1.210	68.206	507	•038	40.479	23.378	.041
•	586.0	366200.0	24331.1	-1.210	68.231	607	037	40.486	23.433	• 042
	587.0	365705.4	24331.7	-1.210	68.256	 706	108	40.489	23.488	• 043
	588.0	365210.7	24332.3	-1.210	68.282	808	184	40.495	23.542	.044
	589.0	364715.9	24332.9	-1.211	68.307	913	257	40.504	23.597	.045
	590.0	364221.0	24333.5	-1.211	68.333	-1.012	329	40.512	23.652	•046
·	591.0	363726.0	24334.1	-1.211	68.358	-1.125	408	40.522	23.706	.047
	592.0	363230.9	24334.7	-1.211	68.384	-1.115	377	40.545	23.760	• 049
	593.0	362735.8	24335.3	-1.211	68.410	-1.049	285	40.569	23.814	• 05.0
	594.0	362240.5	24336.0	-1.212	68.435	-1.007	223	40.597	23.869	•051
	595.0	361745.1	24336.6	-1.212	68.461	963	149	40.626	23.923	• 052
	596.0	361249.6	24337.2	-1.212	68.487	917	082	40.647	23.976	• 053
	597.0	360754.0	24337.8	-1.212	68.512	873	010	40.682	24.030	• 055
	598.0	360258.3	24338.4	-1.212	68.538	833	• 063	40.711	24.084	•056
	599.0	359762.6	24339.0	-1.213	68.564	784	•129	40.736	24.137	•058

************************ STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. *****************

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QA	MACHA	ALPHAA	BETAA	SIGMAA	HDGA	GAMA	VELA	ALTDE	TIME
(PSF)	(-)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(FPS)	(FT)	(SEC)
• 05	24.190	40.757	.193	751	68.590	-1.213	24339.6	359266.7	600.0
• 06	24.244	40.785	•258	718	68.616	-1.213	24340.2	358770.8	601.0
. 06	24.297	40.810	.317	685	68.642	-1.213	24340.8	358274.7	602.0
• 06	24.349	40.833	.258	677	68.668	-1.213	24341.4	357778.6	603.0
• 06	24.402	40.858	.192	682	68.694	-1.213	24342.0	357282.4	604.0
• 06	24.454	40.881	.118	683	68.720	-1.214	24342.6	356786.1	605.0
• 06	24.507	40.902	•045	683	68.746	-1.214	24343.2	356289.7	606.0
.07	24.559	40.923	024	686	68.772	-1.214	24343.8	355793.3	607.0
• 07	24.610	40.943	094	687	68.798	-1.214	24344.4	355296.7	608.0
•07	24.662	40.963	164	692	68.824	-1.214	24345.0	354800.1	609.0
.07	24.713	40.980	236	695	68.851	-1.214	24345.6	354303.4	610.0
• 07	24.764	40.994	316	708	68.877	-1.215	24346.2	353806.6	611.0
•08	24.815	40.987	341	672	68.903	-1.215	24346.8	353309.8	612.0
•08	24.866	40.957	318	570	68.930	-1.215	24347.4	352812.9	613.0
•08	24.916	40.927	295	480	68.956	-1.215	24348.0	352315.9	G 614.0
• 08	24.966	40.899	273	392	68.983	-1.215	24348.6	351818.8	615.0
• 0.8	25.016	40.869	263	307	69.009	-1.215	24349.2	351321.7	616.0
• 09	25.066	40.830	241	216	69.036	-1.215	24349.8	350824.5	617.0
• 09	25.115	40.798	226	134	69.062	-1.215	24350.4	350327.2	618.0
• 09	25.164	40.761	209	050	69.089	-1.216	24351.0	349829.8	619.0
• 09	25.212	40.723	193	.044	69.115	-1.216	24351.6	349332.4	620.0
.10	25.260	40.684	180	•121	69.142	-1.216	24352.2	348834.9	621.0
.10	25.308	40.642	164	.203	69.169	-1.216	24352.8	348337.4	622.0
.10	25.356	40.601	156	.283	69.196	-1.216	24353.4	347839.7	623.0
.10	25.403	40.556	148	.364	69.222	-1.216	24354.0	347342.0	624.0
•11	25.450	40.511	137	.438	69.249	-1.216	24354.6	346844.2	625.0
•11	25.497	40.457	128	.516	69.276	-1.216	24355.2	346346.4	626.0
•11	25.543	40.419	120	•593	69.303	-1.216	24355.8	345848.5	627.0
.12	25.589	40.351	071	•676	69.330	-1.217	24356.3	345350.5	628.0
.12	25.634	40.299	•067	.779	69.357	-1.217	24356.9	344852.5	629.0

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TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
630.0	344354.4	24357.5	-1.217	69.384	•882	•219	40.244	25.679	•128
631.0	343856.2	24358.2	-1.217	69.411	•929	• 302	40.187	25.724	•131
632.0	343358.0	24358.7	-1.217	69.438	• 908	.327	40.142	25.768	.135
633.0	342859.7	24359.3	-1.217	69.465	• 900	•359	40.084	25.812	•138
634.0	342361.4	24359.9	-1.217	69.492	.886	•387	40.024	25.855	.142
635.0	341863.0	24360.5	-1.217	69.520	.858	•410	39.967	25.898	.146
636.0	341364.5	24361.1	-1.217	69.547	.840	• 433	39.907	25.941	• 150
637.0	340866.1	24361.6	-1.217	69.574	.807	•449	39.840	25.983	.154
638.0	340367.5	24362.2	-1.217	69.601	.781	.472	39.769	26.025	.158
639.0	339869.0	24362.8	-1.218	69.629	.672	•422	39.709	26.066	•163
640.0	339370.3	24363.4	-1.218	69.656	•524	• 328	39.644	26.107	•167
641.0	338871.7	24364.0	-1.218	69.683	•386	• 250	39.580	26.147	•172
642.0	338373.0	24364.5	-1.218	69.711	.234	•161	39.513	26.187	•176
643.0	337874.2	24365.1	-1.218	69.738	.084	.078	39.440	26.226	.181
644.0	337375.5	24365.7	-1.218	69.766	075	008	39.361	26.265	•186
645.0	336876.6	24366.2	-1.218	69.793	227	097°	39.279	26.304	• 192
646.0	336377.8	24366.8	-1.218	69.821	385	179	39.207	26.342	.197
647.0	335878.9	24367.4	-1.218	69.849	544	268	39.163	26.379	. 202
648.0	335380.0	24367.9	-1.218	69.876	704	354	39.132	26.416	.208
649.0	334881.1	24368.5	-1.218	69.904	811	402	39.115	26.452	.214
650.0	334382.1	24369.1	-1.218	69.932	815	340	39.113	26.488	•220
651.0	333883.1	24369.6	-1.218	69.960	820	291	39.162	26.524	. 226
652.0	333384.1	24370.2	-1.218	69.987	832	242	39.221	26.559	. 232
653.0	332885.0	24370.7	-1.218	70.015	845	197	39.270	26.593	• 239
654.0	332386.0	24371.3	-1.218	70.043	859	155	39.317	26.627	.246
655.0	331886.9	24371.9	-1.218	70.071	882	115	39.360	26.660	• 253
656.0	331387.8	24372.4	-1.218	70.099	904	074	39.391	26.693	• 260
657.0	330888.8	24372.9	-1.218	70.127	924	041	39.417	26.725	• 267
658.0	330389.7	24373.5	-1.218	70.155	956	013	39.439	26.757	• 275
659.0	329890.7	24374.0	-1.218	70.183	992	•019	39.452	26.788	. 283
* *						• •		== • = •	

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	660.0	329391.6	24374.5	-1.218	70.211	-1.031	•045	39.459	26.819	• 291
	661.0	328892.6	24375.0	-1.218	70.239	-1.069	• 066	39.461	26.849	• 299
	662.0	328393.5	24375.6	-1.217	70.268	-1.111	.082	39.457	26.878	• 308
	663.0	327894.5	24376.1	-1.217	70.296	-1.165	.112	39.441	26.907	• 272
	664.0	327395.5	24376.7	-1.217	70.324	-1.248	•029	39.439	26.936	• 280
	665.0	326896.4	24377.2	-1.217	70.352	-1.339	103	39.451	26.964	.287
	666.0	326397.4	24377.7	-1.217	70.380	-1.404	201	39.468	26.991	• 296
	667.0	325898.4	24378.2	-1.217	70.409	-1.437	267	39.492	27.018	•304
•	668.0	325399.4	24378.7	-1.217	70.437	-1.441	305	39.522	27.044	.313
	669.0	324900.4	24379.2	-1.217	70.466	-1.421	318	39.556	27.070	• 322
	670.0	324401.4	24379.7	-1.217	70.494	-1.381	311	39.592	27.095	•331
	671.0	323902.5	24380.2	-1.217	70.523	-1.325	286	39.628	27.120	• 341
	672.0	323403.6	24380.7	-1.216	70.551	-1.257	246	39.663	27.144	• 351
Ļ	673.0	322904.8	24381.2	-1.216	70.580	-1.180	197	39.695	27.167	.361
.107-	674.0	322406.1	24381.7	-1.216	70.608	-1.099	141	39.722	27.190	• 371
1	675.0	321907.5	24382.1	-1.216	70.637	-1.018	082	39.743	27.212	•381
	676.0	321408.9	24382.6	-1.216	70.666	940	023	39.755	27.234	• 392
	677.0	320910.4	24383.1	-1.215	70.694	870	.031	39.757	27.255	• 404
	678.0	320412.0	24383.5	-1.215	70.723	812	•077	39.748	27.276	•415
	679.0	319913.7	24383.9	-1.215	70.752	760	.114	39.731	27.296	.427
, ,	680.0	319415.6	24384.4	-1.214	70.781	715	.142	39.710	27.315	• 440
	681.0	318917.5	24384.8	-1.214	70.810	682	.166	39.673	27.334	. 453
	682.0	318419.5	24385.2	-1.214	70.839	658	.183	39.627	27.353	• 465
	683.0	317921.6	24385.6	-1.214	70.868	647	.196	39.563	27.371	• 479
	684.0	317423.8	24386.1	-1.213	70.896	646	.198	39.513	27.388	. 493
	685.0	316926.2	24386.5	-1.213	70.925	658	.198	39.491	27.405	.507
	686.0	316428.7	24386.9	-1.213	70.955	682	.187	39.471	27.421	•523
	687.0	315931.4	24387.3	-1.212	70.984	714	.175	39.442	27.437	• 537
	688.0	315434.2	24387.7	-1.212	71.013	760	.151	39.406	27.453	• 553
	689.0	314937.1	24388.0	-1.211	71.042	818	.124	39.386	27.467	.569

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	OA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	690.0	314440.2	24388.4	-1.211	71.071	895	•076	39.363	27.482	• 586
	691.0	313943.5	24388.8	-1.210	71.100	979	•027	39.350	27.495	•603
	692.0	313446.9	24389.2	-1.210	71.129	-1.069	031	39.349	27.509	•621
	693.0	312950.5	24389.5	-1.210	71.159	-1.171	103	39.341	27.521	•638
**	694.0	312454.3	24389.9	-1.209	71.188	-1.293	179	39.335	27.534	•657
	695.0	311958.2	24390.2	-1.209	71.217	-1.421	260	39.334	27.546	• 677
	696.0	311462.3	24390.6	-1.208	71.247	-1.554	345	39.390	27.557	• 696
	697.0	310966.7	24391.0	-1.208	71.276	-1.606	365	39.464	27.568	.717
	698.0	310471.2	24391.3	-1.207	71.306	-1.651	369	39.532	27.578	•737
	699.0	309975.9	24391.6	-1.207	71.335	-1.702	378	39.604	27.588	• 758
W	700.0	309480.8	24391.9	-1.206	71.365	-1.757	389	39.669	27.598	.781
	701.0	308986.0	24392.2	-1.205	71.394	-1.817	405	39.740	27.607	.803
	702.0	308491.3	24392.5	-1.205	71.424	-1.881	427	39.812	27.615	.827
<u></u>	703.0	307996.9	24392.8	-1.204	71.454	-1.951	451	39.888	27.623	.851
08	704.0	307502.8	24393.1	-1.204	71.483	-2.012	468	39.966	27.631	.876
· T.	705.0	307009.0	24393.3	-1.203	71.513	-2.016	436	40.047	27.638	.901
	706.0	306515.4	24393.6	-1.202	71.543	-1.996	379	40.143	27.645	.927
	707.0	306022.0	24393.8	-1.202	71.572	-1.987	327	40.240	27.652	.954
	708.0	305529.0	24394.1	-1.201	71.602	-1.989	325	40.341	27.658	.982
	709.0	305036.2	24394.3	-1.200	71.632	-1.987	374	40.445	27.664	1.010
	710.0	304543.7	24394.5	-1.199	71.662	-1.924	383	40.566	27.669	1.040
	711.0	304051.6	24394.7	-1.198	71.692	-1.859	383	40.696	27.674	1.069
-	712.0	303559.8	24394.9	-1.198	71.722	-1.797	389	40.831	27.679	1.101
	713.0	303068.4	24395.0	-1.197	71.752	-1.731	389	40.980	27.683	1.132
	714.0	302577.3	24395.2	-1.196	71.782	-1.682	397	41.121	27.687	1.166
record the desirence country in the second second second	715.0	302086.7	24395.3	-1.195	71.812	-1.638	416	41.204	27.691	1.199
	716.0	301596.5	24395.4	-1.194	71.842	-1.607	451	41.281	27.694	1.234
	717.0	301106.6	24395.5	-1.193	71.872	-1.555	463	41.359	27.697	1.269
	718.0	300617.3	24395.5	-1.191	71.902	-1.414	369	41.357	27.699	1.306
	719.0	300128.4	24395.6	-1.190	71.932	-1.288	276	41.350	27.702	1.343
						# 1 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×		* * * * * * * * * * * * * * * * * * * *	** * * * * * * * * * * * * * * * * * * *	÷

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA	
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)	
	720.0	299639.9	24395.6	-1.189	71.962	-1.158	193	41.309	27.704	1.381	
	721.0	299152.0	24395.6	-1.188	71.993	-1.051	118	41.257	27.706	1.421	
	722.0	298664.5	24395.6	-1.187	72.023	960	060	41.196	27.707	1.462	
	723.0	298177.5	24395.6	-1.186	72.053	894	017	41.123	27.708	1.504	
•	724.0	297691.0	24395.6	-1.184	72.084	839	.017	41.038	27.709	1.546	
	725.0	297205.1	24395.5	-1.183	72.114	816	.021	40.936	27.710	1.590	
	726.0	296719.7	24395.5	-1.182	72.144	819	• 006	40.833	27.711	1.635	
	727.0	296234.8	24395.4	-1.180	72.175	842	025	40.721	27.711	1.681	
	728.0	295750.6	24395.3	-1.179	72.205	891	070	40.587	27.711	1.729	
	729.0	295266.9	24462.7	-1.174	72.555	974	•192	40.451	27.788	1.788	
	730.0	294783.9	24465.2	-1.173	72.569	-1.061	.104	40.308	27.791	1.838	
	731.0	294301.5	24467.4	-1.171	72.584	-1.172	•003	40.157	27.793	1.890	
	732.0	293819.7	24469.4	-1.169	72.599	-1.298	111	39.995	27.795	1.943	
<u>L</u>	733.0	293338.6	24471.1	-1.168	72.614	-1.408	219	39.828	27.796	1.998	
09	734.0	292858.1	24472.6	-1.166	72.630	-1.523	324	39.652	27.797	2.054	
Ŷ	735.0	292378.4	24473.8	-1.164	72.645	-1.603	405	39.483	27.798	2.112	
	736.0	291899.4	24474.8	-1.162	72.661	-1.648	461	39.326	27.801	2.170	
	737.0	291421.2	24475.5	-1.160	72.677	-1.672	499	39.179	27.798	2.229	
	738.0	290943.7	24476.0	-1.159	72.693	-1.653	- •507	39.046	27.795	2.290	
	739.0	290466.9	24476.3	-1.157	72.709	-1.611	501	38.962	27.791	2.352	
	740.0	289990.9	24475.9	-1.155	72.725	-1.541	481	38.965	27.786	2.415	
	741.0	289515.7	24475.8	-1.153	72.742	-1.444	445	39.014	27.782	2.480	
	742.0	289041.3	24475.5	-1.151	72.759	-1.338	398	39.098	27.776	2.546	
	743.0	288567.7	24475.1	-1.149	72.776	-1.207	348	39.236	27.770	2.614	
	744.0	288095.0	24474.4	-1.147	72.793	-1.070	282	39.408	27.763	2.683	
	745.0	287623.1	24473.7	-1.145	72.811	934	227	39.639	27.756	2.754	
	746.0	287152.2	24472.6	-1.143	72.829	811	188	39.905	27.748	2.827	
	747.0	286682.3	24471.9	-1.140	72.846	697	162	40.212	27.741	2.901	
	748.0	286213.3	24470.5	-1.138	72.865	604	153	40.521	27.732	2.976	
	749.0	285745.4	24468.8	-1.136	72.884	530	153	40.803	27.722	3.054	

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA	QA (PSF)
Appendix As a distribution of	750.0	285278.5	24466.8	-1.133	72.903	474	174	41.021	27.712	3.133
	751.0	284812.8	24464.6	-1.131	72.923	435	219	41.171	27.701	3.213
•	752.0	284348.2	24462.1	-1.128	72.944	409	274	41.284	27.690	3.295
	753.0	283884.8	24459.5	-1.125	72.965	380	335	41.350	27.678	3.379
	754.0	283422.6	24456.3	-1.123	72.986	335	398	41.359	27.666	3.465
	755.0	282961.5	24453.3	-1.120	73.008	279	453	41.312	27.653	3.553
	756.0	282501.7	24450.0	-1.117	73.030	192	487	41.201	27.640	3.642
	757.0	282043.1	24446.6	-1.114	73.052	071	504	41.016	27.626	3.733
	758.0	281585.8	24443.0	-1.111	73.075	.087	496	40.782	27.612	3.826
	759.0	281129.8	24439.2	-1.108	73.098	.277	476	40.506	27.597	3.920
	760.0	280675.1	24435.2	-1.105	73.122	•509	405	40.185	27.582	4.017
	761.0	280221.6	24431.2	-1.103	73.145	.712	339	39.861	27.566	4.115
	762.0	279769.4	24427.0	-1.100	73.169	.908	295	39.584	27.550	4.215
	763.0	279318.6	24422.6	-1.097	73.194	1.099	238	39.365	27.534	4.317
110	764.0	278869.1	24418.1	-1.094	73.220	1.196	198	39.200	27.517	4.422
Ò	765.0	278420.9	24413.5	-1.091	73.247	1.249	197	39.072	27.500	4.528
	766.0	277974.1	24408.7	-1.088	73.274	1.289	210	38.994	27.483	4.636
	767.0	277528.6	24403.8	-1.085	73.301	1.315	239	38.972	27.465	4.746
	768.0	277084.6	24397.7	-1.082	73.331	1.334	166	38.995	27.446	4.857
	769.0	276641.9	24392.6	-1.078	73.359	1.328	132	39.083	27.427	4.971
	770.0	276200.7	24387.4	-1.075	73.388	1.288	128	39.230	27.409	5.088
	771.0	275761.0	24382.2	-1.072	73.417	1.201	159	39.423	27.390	5.206
	772.0	275322.9	24377.0	-1.068	73.446	1.116	212	39.671	27.371	5.326
	773.0	274886.3	24371.7	-1.065	73.476	1.008	274	39.955	27.351	5.448
	774.0	274451.3	24366.4	-1.061	73.506	•910	340	40.271	27.332	5.573
	775.0	274018.0	24361.1	-1.057	73.536	.837	409	40.568	27.312	5.700
	776.0	273586.4	24355.3	-1.053	73.565	.793	450	40.801	27.292	5.828
•	777.0	273156.7	24349.8	-1.049	73.596	.811	455	40.989	27.272	5.959
*	778.0	272728.9	24344.3	-1.044	73.627	.878	411	41.106	27.251	6.092
	779.0	272303.1	24338.9	-1.040	73.658	.971	291	41.162	27.231	6.226

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA.

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PAGE 27

TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	0.4
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
780.0	271879.3	24333.3	-1.035	73.690	1.050	175	41.144	27.210	6.363
781.0	271457.6	24327.8	-1.030	73.722	1.083	107	41.040	27.190	6.502
782.0	271038.0	24322.3	-1.026	73.754	1.081	085	40.874	27.169	6.643
783.0	270620.6	24316.1	-1.021	73.788	1.033	111	40.646	27.147	6.786
784.0	270205.5	24310.8	-1.015	73.821	•982	166	40.373	27.127	6.931
785.0	269792.6	24305.6	-1.010	73.854	.941	214	40.076	27.106	7.079
786.0	269381.9	24300.6	-1.005	73.887	•938	238	39.800	27.085	7.228
787.0	268973•4	24295.7	-1.000	73.921	.975	240	39.596	27.065	7.379
788.0	268567.3	24291.0	995	73.955	1.026	218	39.498	27.044	7.533
789.0	268163.4	24286.3	989	73.989	1.103	177	39.485	27.024	7.689
790.0	267761.9	24281.7	984	74.024	1.203	148	39.518	27.004	7.846
791.0	267362.7	24277.6	 978	74.060	1.289	087	39.632	26.984	8.006
791.0	266966 • 0	24273.2	973	74.095	1.341	064	39.791	26.964	8.168
	266571.9	24268.7	967	74.130	1.385	047	39.993	26.943	8.332
<u> </u> 793.0		24264.3	961	74.165	1.415	020	40.208	26.923	8.497
口 794.0	266180.3	24259.9	 955	74.200	1.415	028	40.430	26.903	8.665
795.0	265791.3	24255.5	948	74.235	1.399	046	40.645	26.883	8.834
796.0	265404.9	24251.1	942	74.270	1.354	018	40.817	26.862	9.00
797.0	265021.4	24246.7	935	74.270	1.279	012	40.932	26.842	9.177
798.0	264640.6	24242.3	929	74.340	1.190	045	40.978	26.822	9.352
799.0	264262.7	A RESERVED AND ADDRESS OF THE PARTY OF THE P	922	74.374	1.107	087	40.947	26.801	9.528
800.0	263887.7	24237.9	914	74.409	1.045	128	40.845	26.781	9.70
801.0	263515.8	24233.5	907	74.445	1.032	133	40.681	26.761	9.884
802.0	263146.9	24229.2	907	74.480	1.060	133	40.469	26.741	10.064
803.0	262781.2	24224.9	893	74.516	1.115	074	40.224	26.721	10.246
804.0	262418.6	24220.7		74.552	1.162	.020	39.970	26.701	10.429
805.0	262059.1	24216.6	885	74.532	1.164	.073	39.727	26.682	10.61
806.0	261702.9	24212.6	878	and the same of th	1.108	•066	39.519	26.662	10.800
807.0	261349.9	24208.6	870	74.625		•018	39.360	26.643	10.987
808.0	261000.2	24204.6	862	74.661	1.011	040	39.264	26.623	11.174

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	810.0	260310.7	24196.4	847	74.736	.829	089	39.240	26.604	11 2/2
	811.0	259971.0	24192.5	839	74.772	.828	093	39.283	26.585	11.363
	812.0	259634.8	24188.8	830	74.808	.880	074	39.393	26.566	11.553
	813.0	259302.1	24185.0	822	74.845	.967	025	39.557	And the first of the second	11.745
	814.0	258973.0	24181.3	813	74.843	1.064		39.750	26.547	11.936
	815.0	258647.7	24177.5	804	74.001		•008		26.528	12.129
		258326.1		796		1.177	•071	39.974	26.510	12.322
	816.0		24173.7		74.953	1.232	.109	40.186	26.491	12.515
	817.0	258008.2	24169.9	787	74.989	1.269	•121	40.380	26.473	12.709
	818.0	257694.3	24166.2	777	75.025	1.288	.114	40.525	26.454	12.903
	819.0	257384.2	24162.6	768	75.060	1.280	•090	40.628	26.436	13.098
	820.0	257078.2	24158.8	758	75.097	1.248	•140	40.687	26.418	13.292
	821.0	256776.4	24154.9	749	75.133	1.117	.167	40.694	26.400	13.486
	822.0	256478.7	24151.0	739	75.169	•904	•143	40.649	26.382	13.680
_	823.0	256185.2	24147.1	728	75.205	.651	.081	40.560	26.365	13.873
<u> </u>	824.0	255896.1	24143.2	718	75.241	•396	.030	40.453	26.347	14.066
ŀ	825.0	255611.3	24139.3	708	75.277	•150	002	40.343	26.330	14.258
	826.0	255330.9	24135.5	698	75.313	082	018	40.232	26.313	14.450
	827.0	255054.9	24131.7	687	75.349	313	028	40.138	26.296	14.640
	828.0	254783.3	24127.8	677	75.385	547	032	40.054	26.279	14.830
	829.0	254516.1	24124.0	666	75.420	803	051	39.998	26.262	15.019
•	830.0	254253.5	24120.5	655	75.458	-1.036	121	39.962	26.246	15.207
	831.0	253995.5	24116.5	644	75.494	-1.201	167	39.946	26.230	15.393
	832.0	253742.3	24112.5	633	75.529	-1.342	172	39.950	26.213	15.578
	833.0	253493.9	24108.3	621	75.564	-1.503	186	39.962	26.197	15.761
	834.0	253250.4	24104.1	610	75.599	-1.606	278	39.997	26.181	15.941
	835.0	253011.9	24099.7	598	75.635	-1.612	304	40.040	26.165	16.120
	836.0	252778.5	24095.3	585	75.670	-1.538	238	40.094	26.149	16.296
	837.0	252550.2	24090.9	573	75.705	-1.615	.247	40.156	26.133	16.470
	838.0	252327.0	24086.3	561	75.741	-2.467	.827	40.222	26.118	16.642
	839.0	252109.1	24081.7	548	75.775	-4.462	953	40.322	26.103	16.810
		- J - L - J - L - L - L - L - L - L - L	_ TOOL 1		134113		• ,,,,	700366	504107	10.010

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	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	840.0	251896.5	24076.9	536	75.809	-7.213	• 595	40.424	26.087	16.976
	841.0	251689.2	24072.0	523	75.842	-10.170	•301	40.522	26.072	17.138
•	842.0	251487.4	24067.0	510	75.874	-13.156	.130	40.590	26.057	17.297
	843.0	251291.0	24061.8	497	75. 905	-16.108	.031	40.615	26.042	17.453
	844.0	251099.9	24056.7	485	75.936	-19.022	011	40.583	26.027	17.606
	845.0	250914.2	24051.6	472	75.965	-21.894	• 009	40.480	26.013	17.755
	846.0	250733.6	24046.4	460	75.994	-24.805	•029	40.339	25.998	17.901
	847.0	250558 • 1	24041.1	448	76.021	-27.783	.029	40.192	25.984	18.044
	848.0	250387.5	24035.9	437	76.048	-30.790	.040	40.047	25.970	18.183
	849.0	250221.7	24030.5	425	76.075	-33.840	.046	39.896	25.957	18.319
	850.0	250060.6	24025.1	414	76.100	-36.936	.054	39.747	25.943	18.451
	851.0	249904.0	24019.8	404	76.125	-40.092	.055	39.632	25.930	18.581
	852.0	249751.6	24014.4	394	76.149	-43.283	•037	39.574	25.916	18.708
· <u>L</u>	853.0	249603.1	24009.0	385	76.172	-46.503	.053	39.568	25.903	18.831
113	854.0	249458.3	24003.6	377	76.194	-49.712	165	39.608	25.891	18.953
Ŷ	855.0	249316.7	23998.0	370	76.216	-52.411	601	39.664	25.878	19.071
	856.0	249178.3	23992.2	362	76.236	-54.229	718	39.705	25.865	19.187
	857.0	249043.0	23986.4	355	76.257	-55.518	523	39.730	25.852	19.301
	858.0	248910.6	23980.6	348	76.277	-56.629	373	39.746	25.839	19.413
	859.0	248780.9	23974.8	342	76.298	-57.674	315	39.758	25.827	19.523
	860.0	248654.1	23968.7	335	76.317	-58.652	250	39.763	25.814	19.631
****	861.0	248530.0	23962.7	329	76.337	-59.622	243	39.786	25.801	19.736
	862.0	248408.5	23956.7	323	76.356	-60.506	285	39.809	25.789	19.840
	863.0	248289.4	23950.5	317	76.375	-61.275	302	39.832	25.777	19.941
** *** * *** ***	864.0	248172.8	23944.1	311	76.394	-61.923	287	39.864	25.764	20.040
	865.0	248058.6	23938.0	306	76.413	-62.520	287	39.995	25.752	20.138
**** · · · · · · · · · · · · · · · · ·	866.0	247946.6	23931.4	300	76.431	-62.894	390	40.697	25.739	20.233
	867.0	247836.9	23924.6	295	76.449	-62.983	295	40.927	25.727	20.327
	868.0	247729.7	23917.7	289	76.467	-63.040	205	40.764	25.714	20.418
	869.0	247624.7	23911.9	284	76.485	-63.176	192	40.491	25.703	20.509

TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	AL PHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
								Y. T.	
870.0	247521.9	23905.4	279	76.503	-63.348	212	40.274	25.691	20.597
871.0	247421.4	23898.7	273	76.521	-63.518	239	40.105	25.679	20.683
872.0	247323.0	23891.8	268	76.539	-63.663	256	39.610	25.666	20.767
873.0	247226.8	23885.6	263	76.558	-63.774	241	38.964	25.655	20.850
874.0	247132.4	23879.9	259	76.577	-63.877	236	39.061	25.644	20.932
875.0	247039.8	23873.8	254	76.596	-63.934	208	39.861	25.633	21.013
876.0	246949.4	23866.9	249	76.613	-63.935.	166	40.477	25.621	21.090
877.0	246861.0	23860.0	244	76.631	-63.944	149	40.647	25.610	21.165
878.0	246774.8	23853.0	239	76.649	-63.988	157	40.687	25.598	21.238
879.0	246690.5	23846.0	235	76.666	-64.049	217	40.686	25.586	21.310
880.0	246608.4	23839.0	229	76.684	-64.084	161	40.659	25.575	21.379
881.0	246528.5	23832.0	224	76.702	-64.355	• 243	40.624	25.563	21.447
882.0	246450.8	23825.0	219	76.720	-65.543	•643	40.607	25.552	21.512
883.0	246375.1	23817.8	214	76.738	-67.800	• 566	40.643	25.541	21.575
884.0	246301.0	23810.7	211	76.754	-70.498	•154	40.700	25.529	21.637
885.0	246227.9	23803.4	210	76.771	-72.786	470	40.741	25.518	21.698
886.0	246155.5	23796.1	208	76.787	-74.130	655	40.752	25.507	21.758
887.0	246083.7	23788.9	207	76.803	-74.946	 558	40.741	25.495	21.818
0.888	246012.4	23781.6	206	76.819	-75.538	377	40.709	25.484	21.877
889.0 890.0	245941.5	23774.3	205	76.835	-76.131	288	40.684	25.473	21.936
	245870.9	23767.0	204	76.851	-76.709	304	40.664	25.462	21.995
891.0	245800.5	23759.7	204	76.867	-77.184	326	40.647	25.450	22.054
892.0 893.0	245730.3	23752.3	203	76.882	-77.556	304	40.633	25.439	22.112
894.0	245660.2	23745.0	203	76.898	-77.826	308	40.635	25.428	22.171
	245590.2	23737.7	203	76.914	-78.059	324	40.636	25.416	22.230
895.0	245520.1	23730.3	203	76.929	-78.255	321	40.641	25.405	22.289
896.0 897.0	245450.1	23722.8	203	76.945	-78.384	301	40.657	25.394	22.347
898.0	245380.0	23715.2	204	76.960	-78.480	278	40.666	25.382	22.406
	245309.8	23707.7	204	76.975	-78.556	279	40.660	25.370	22.465
899.0	245239.6	23700.1	204	76.990	- 78.630	304	40.621	25.359	22.524

						and the second s			
TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
					······································	202		25.347	22.583
900.0	245169.3	23692.5	204	77.005	-78.649	303	40.571		22.643
901.0	245098.8	23684.9	205	77.020	-78.607	302	40.503	25.336	22.703
902.0	245028.1	23677.5	205	77.036	-78.528	284	40.420	25.324	
903.0	244957.3	23670.1	206	77.051	-78.394	326	40.329	25.313	22.764
904.0	244886.2	23662.8	206	77.067	-78.145	357	40.230	25.302	22.825
905.0	244815.0	23655.5	207	77.082	-77.803	327	40.159	25.291	22.887
906.0	244743.6	23648.2	207	77.098	-77.475	264	40.128	25.279	22.948
907.0	244672.1	23641.0	207	77.114	-77.180	237	40.131	25.268	23.010
908.0	244600.5	23633.7	208	77.129	-76.924	288	40.161	25.257	23.073
909.0	244528.8	23626.4	208	77.145	-76.634	321	40.194	25.245	23.135
910.0	244457.1	23619.1	208	77.161	-76.288	256	40.219	25.234	23.198
911.0	244385.4	23611.9	208	77.176	- 75.973	217	40.248	25.223	23.261
912.0	244313.7	23604.5	208	77.192	-75.676	218	40.273	25.211	23.323
913.0	244242.1	23597.1	208	77.207	-75.424	256	40.294	25.200	23.386
914.0	244170.5	23589.7	207	77.223	-75.156	277	40.308	25.189	23.449
915.0	244099.0	23582.2	207	77.239	-74.892	282	40.314	25.177	23.512
916.0	244027.6	23574.8	207	77.254	-74.630	242	40.316	25.166	23.575
917.0	243956.3	23567.4	207	77.270	-74.413	207	40.310	25.154	23.638
918.0		23559.8	206	77.285	-74.248	201	40.295	25.143	23.701
919.0		23552.3	206	77.301	-74.090	203	40.275	25.131	23.763
	243743.5	23544.9	205	77.317	-73.955	166	40.255	25.120	23.826
920.0	243672.8	23537.4	205	77.332	-73.919	141	40.240	25.109	23.889
921.0	_	23530.0	205	77.348	-73.915	175	40.238	25.097	23.951
922.0	243602.3		205	77.364	-73.888	197	40.259	25.086	24.014
923.0	243531.9	23522.6	205	77.379	-73.801	195	40.289	25.074	24.077
924.0	243461.6	23515.0		77.394	-73.685	185	40.313	25.063	24.139
925.0	and the second s	23507.4	204		-73.562	180	40.323	25.051	24.202
926.0	243321.3	23499.9	204	77.410	-73.962	166	40.348	25.040	24.265
927.0		23492.4	204	77.426		A CONTRACTOR OF A CONTRACTOR O	40.362	25.029	24.328
928.0	A CONTRACTOR OF STREET AND ADDRESS OF THE STREET	23485.0	204	77.442	-73.335	125	40.388	25.027	24.390
929.0	243111.5	23477.5	204	77.457	-73.311	131	40.300	53.0T1	244370

-115

* STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA. PAGE 32

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	930.0	243041.7	23469.9	203	77.473	-73.360	077	40.426	25.006	24.453
	931.0	242972.1	23462.3	203	77.488	-73.522	099	40.471	24.994	24.516
	932.0	242902.4	23454.6	203	77.504	-73.726	158	40.532	24.983	24.578
	933.0	242832.7	23446.9	203	77.519	-73.889	199	40.581	24.971	24.641
	934.0	242763.0	23438.9	203	77.533	-73.964	196	40.627	24.959	24.703
	935.0	242693.3	23430.9	204	77.548	-74.007	173	40.638	24.947	24.766
	936.0	242623.5	23422.8	204	77.562	-73.992	119	40.617	24.935	24.828
	937.0	242553.8	23414.5	204	77.576	-73.980	099	40.588	24.923	24.890
	938.0	242484.0	23406.2	204	77.590	-73.951	056	40.547	24.911	24.952
	939.0	242414.3	23397.9	204	77.604	-73.930	049	40.496	24.898	25.014
	940.0	242344.7	23389.5	204	77.617	-73.906	051	40.425	24.886	25.077
	941.0	242275.0	23381.1	204	77.631	-73.838	089	40.329	24.874	25.139
	942.0	242205.3	23372.8	204	77.645	-73.721	123	40.216	24.862	25.201
L	943.0	242135.5	23364.6	204	77.658	-73.557	142	40.101	24.849	25.264
116	944.0	242065.7	23356.4	204	77.672	-73.376	170	39.986	24.837	25.328
Ť	945.0	241995.9	23348.2	204	77.686	-73.176	190	39.881	24.825	25.391
	946.0	241926.1	23340.1	204	77.700	-72.925	204	39.787	24.813	25.454
	947.0	241856.3	23331.9	204	77.713	-72.662	224	39.710	24.801	25.518
	948.0	241786.5	23323.6	204	77.727	-72.360	247	39.647	24.789	25.582
	949.0	241716.8	23315.4	204	77.741	-71.999	251	39.585	24.777	25.645
	950.0	241647.2	23307.2	203	77.754	-71.593	249	39.536	24.765	25.709
	951.0	241577.8	23298.9	203	77.768	-71.151	242	39.494	24.752	25.772
	952.0	241508.6	23290.6	202	77.781	-70.658	261	39.459	24.740	25.836
	953.0	241439.9	23282.3	201	77.795	-70.301	008	39.421	24.728	25.899
-	954.0	241371.8	23274.1	200	77.809	-70.678	•359	39.386	24.716	25.961
	955.0	241304.0	23265.7	199	77.822	-71.870	•294	39.358	24.704	26.023
	956.0	241236.1	23257.3	200	77.835	-72.890	163	39.332	24.692	26.085
	957.0	241168.2	23248.8	200	77.848	-73.333	320	39.273	24.679	26.146
	958.0	241100.0	23240.6	201	77.860	-73.537	331	39.179	24.667	26.210
	959.0	241031.4	23232.2	203	77.872	-73.470	777	39.093	24.655	26.273

* STSBBET USING LAIRJB (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA.

PAGE 33

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	HACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
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	960.0	240962.0	23223.9	204	77.885	-71.978	-1.332	39.036	24.643	26.337
	961.0	240892.8	23215.5	202	77.898	-69.488	570	39.029	24.631	26.401
	962.0	240824.2	23207.2	201	77.911	-68.135	.039	38.955	24.618	26.465
	963.0	240756.2	23198.8	199	77.925	-67.660	.088	38.866	24.606	26.528
	964.0	240688.9	23190.5	198	77.939	-67.234	.174	38.786	24.594	26.590
	965.0	240622.2	23182.2	196	77.953	-66.094	.885	38.693	24.582	26.652
	966.0	240556.3	23174.0	194	77.967	-65.435	1.305	38.614	24.570	26.713
	967.0	240491.4	23165.8	192	77.981	-65.753	1.051	38.591	24.558	26.773
	968.0	240427.2	23157.5	190	77.995	-66.243	.727	38.615	24.546	26.832
	969.0	240363.8	23149.2	188	78.009	-66.657	.470	38.657	24.535	26.891
	970.0	240301.0	23140.8	187	78.022	-67.019	.238	38.687	24.523	26.948
	971.0	240238.8	23132.4	185	78.036	-67.223	•065	38.716	24.511	27.005
	972.0	240177.2	23123.9	184	78.049	-67.282	049	38.743	24.499	27.060
	973.0	240116.1	23115.2	183	78.062	-67.272	101	38.762	24.487	27.115
	974.0	240055.6	23106.6	181	78.075	-67.210	142	38.774	24.475	27.170
	975.0	239995.6	23098.0	180	78.088	-67.120	178	38.766	24.463	27.224
	976.0	239936.1	23089.4	179	78.101	-66.981	201	38.738	24.451	27.277
	977.0	239877.1	23080.7	177	78.114	-66.810	233	38.707	24.438	27.329
	978.0	239818.8	23072.1	176	78.127	-66.588	247	38.681	24.426	27.381
	979.0	239760.9	23063.4	175	78.140	-66.327	285	38.667	24.415	27.433
	980.0	239703.7	23054.7	173	78.153	-65.981	287	38.642	24.403	27.483
****	981.0	239647.1	23046.0	172	78.166	-65.598	245	38.635	24.391	27.533
	982.0	239591.3	23037.2	170	78.179	-65.295	201	38.630	24.379	27.582
	983.0	239536.2	23028.5	168	78.192	-65.020	198	38.622	24.367	27.630
	984.0	239481.8	23019.7	166	78.205	-64.695	208	38.613	24.355	27.677
	985.0	239428.2	23011.0	164	78.218	-64.355	170	38.602	24.343	27.723
	986.0	239375.4	23002.3	162	78.232	-64.063	110	38.602	24.331	27.768
	987.0	239323.5	22993.6	160	78.246	-63.910	047	38.609	24.320	27.813
	988.0	239272.4	22985.0	158	78.259	-63.874	003	38.610	24.308	27.856
	989.0	239222.0	22976.3	156	78.273	-63.880	.032	38.604	24.296	27.899

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TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(F T)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
990.0	239172.5	22967.7	154	78.287	-63.980	• 069	38.593	24.285	27.940
991.0	239123.6	22959.2	153	78.301	-64.209	•081	38.593	24.273	27.981
992.0	239075.4	22950.6	151	78.314	-64.489	•048	38.617	24.262	28.022
993.0	239027.7	22942.0	150	78.328	-64.743	.031	38.668	24.251	28.061
994.0	238980.6	22933.3	149	78.342	-64.993	•028	38.735	24.239	28.099
995.0	238933.9	22924.5	147	78.355	-65.233	.021	38.806	24.228	28.137
996.0	238887.8	22915.6	146	78.368	-65.470	.010	38.878	24.216	28.174
997.0	238842.0	22906.8	145	78.381	-65.693	.011	38.949	24.205	28.211
998.0	238796.7	22897.9	145	78.394	-65.914	.004	39.002	24.193	28.247
999.0	238751.5	22889.0	144	78.407	-66.137	012	39.031	24.181	28.282
1000.0	238706.8	22879.9	143	78.420	-66.347	015	39.052	24.170	28.317
1001.0	238662.2	22870.9	143	78.433	-66.541	019	39.055	24.158	28.352
1002.0	238617.9	22861.9	142	78.445	-66.708	016	39.051	24.146	28.386
1003.0	238573.7	22852.8	142	78.458	-66.859	016	39.039	24.135	28.420
1004.0	238529.6	22843.7	142	78.470	-67.008	008	39.026	24.123	28.454
1005.0	238485.6	22834.7	142	78.483	-67.128	007	39.017	24.111	28.488
1006.0	238441.6	22825.7	142	78.495	-67.240	.002	39.014	24.100	28.522
1007.0	238397.6	22816.7	142	78.508	-67.354	007	39.019	24.088	28.556
1008.0	238353.5	22807.6	142	78.520	-67.453	004	39.027	24.076	28.590
1009.0	238309.3	22798.5	142	78.533	-67.547	014	39.036	24.065	28.624
1010.0	238265.1	22789.4	142	78.545	-67.626	021	39.045	24.053	28.659
1011.0	238220.7	22780.3	143	78.557	-67.704	032	39.060	24.041	28.693
1012.0	238176.2	22771.1	143	78.569	-67.791	064	39.075	24.029	28.727
1013.0	238131.4	22761.9	144	78.582	-67.852	089	39.088	24.018	28.762
1014.0	238086.5	22752.7	144	78.594	-67.866	097	39.093	24.006	28.797
1015.0	238041.3	22743.6	145	78.606	-67.843	088	39.092	23.994	28.833
1016.0	237995.8	22734.4	146	78.618	-67.802	083	39.083	23.982	28.868
1017.0	237950.0	22725.2	147	78.630	-67.749	088	39.067	23.970	28.905
1018.0	237904.0	22716.1	147	78.642	-67.680	099	39.050	23.958	28.941
1019.0	237857.6	22707.0	148	78.653	-67.571	102	39.035	23.947	28.978
101400	23102100	F		10000	010012				~

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	OA (PSF)
	1020.0	237810.9	22697.8	149	78.665	-67.444	099	39.019	23.935	29.016
	1021.0	237764.0	22688.7	150	78.677	-67.289	094	39.006	23.923	29.054
	1022.0	237716.7	22679.5	150	78.689	-67.120	102	39.011	23.911	29.092
	1023.0	237669.2	22670.2	151	78.701	-66.948	113	39.020	23.899	29.130
	1024.0	237621.4	22661.1	152	78.713	-66.738	122	39.052	23.887	29.169
	1025.0	237573.3	22651.8	152	78.725	-66.501	103	39.107	23.875	29.208
	1026.0	237525.1	22642.4	153	78.737	-66.308	064	39.178	23.863	29.248
	1027.0	237476.7	22632.9	153	78.748	-66.136	042	39.235	23.850	29.286
	1028.0	237428.3	22623.3	153	78.760	-65.956	022	39.267	23.838	29.325
	1029.0	237379.7	22613.8	154	78.771	-65.760	• 005	39.270	23.825	29.365
	1030.0	237331.1	22604.1	154	78.783	-65.585	.022	39.252	23.813	29.404
	1031.0	237282.4	22594.5	154	78.794	-65.411	.031	39.237	23.801	29.443
	1032.0	237233.7	22585.0	154	78.806	-65.268	•095	39.218	23.788	29.482
<u>_</u>	1033.0	237184.9	22575.7	154	78.818	-65.235	.105	39.211	23.776	29.523
119	1034.0	237136.0	22566.4	155	78.830	-65.206	.126	39.210	23.764	29.563
φ	1035.0	237086.9	22557.0	155	78.842	-65.259	.182	39.239	23.752	29.604
	1036.0	237037.6	22547.6	156	78.854	-65.436	.219	39.312	23.740	29.644
	1037.0	236988.1	22538.1	156	78.866	-65.700	.210	39.403	23.727	29.685
-	1038.0	236938.3	22528.6	157	78.878	-66.008	•185	39.487	23.715	29.726
	1039.0	236888.2	22519.1	158	78.890	-66.326	.168	39.559	23.702	29.768
	1040.0	236837.6	22509.5	159	78.902	-66.661	.166	39.628	23.690	29.810
	1041.0	236786.6	22499.9	161	78.913	-67.000	.127	39.694	23.677	29.853
	1042.0	236735.0	22490.1	162	78.924	-67.267	.084	39.749	23.665	29.896
	1043.0	236682.8	22480.3	164	78.935	-67.503	.087	39.798	23.652	29.939
	1044.0	236630.0	22470.6	166	78.946	-67.739	.054	39.834	23.639	29.984
	1045.0	236576.4	22460.8	168	78.957	-67.957	.013	39.848	23.626	30.030
	1046.0	236522.1	22450.9	170	78.968	-68.166	028	39.852	23.613	30.077
	1047.0	236466.9	22441.1	172	78.979	-68.370	063	39.840	23.601	30.125
	1048.0	236410.9	22431.4	174	78.989	-68.541	097	39.826	23.588	30.174
	1049.0	236353.9	22421.6	177	79.000	-68.662	102	39.815	23,575	30.224

•	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
										ALLES CARROLLES CO.
	1050.0	236295.9	22411.7	179	79.011	-68.762	114	39.805	23.562	30.276
	1051.0	236236.9	22401.9	182	79.021	-68.849	121	39.810	23.548	30.329
	1052.0	236176.8	22392.0	185	79.032	-68.921	139	39.816	23.535	30.384
	1053.0	236115.7	22382.1	188	79.042	-68.978	170	39.831	23.522	30.440
	1054.0	236053.5	22372.1	191	79.052	-68.994	186	39.849	23.509	30.497
	1055.0	235990.2	22362.3	194	79.062	-68.907	226	39.875	23.495	30.557
	1056.0	235925.7	22352.3	197	79.072	-68.722	241	39.887	23.482	30.618
	1057.0	235860.0	22342.3	200	79.083	-68.497	253	39.894	23.468	30.680
	1058.0	235793.3	22332.3	202	79.093	-68.198	245	39.904	23.454	30.743
•	1059.0	235725.6	22322.1	205	79.102	-67.868	241	39.932	23.441	30.808
	1060.0	235656.9	22311.9	207	79.112	-67.496	231	39.978	23.427	30.874
	1061.0	235587.4	22301.6	210	79.122	-67.084	222	40.004	23.413	30.942
	1062.0	235517.0	22291.2	212	79.131	-66.641	218	40.014	23.398	31.010
<u> </u>	1063.0	235445.9	22280.6	213	79.140	-66.154	208	40.012	23.384	31.079
20-	1064.0	235374.3	22270.1	215	79.150	-65.613	189	39.988	23.370	31.148
a la ser	1065.0	235302.1	22259.5	216	79.159	-65.052	162	39.937	23.355	31.219
	1066.0	235229.5	22248.9	217	79.168	-64.565	126	39.870	23.341	31.290
	1067.0	235156.6	22238.4	218	79.177	-64.136	099	39.791	23.326	31.362
	1068.0	235083.3	22227.9	219	79.187	-63.694	070	39.708	23.312	31.434
	1069.0	235009.8	22217.4	220	79.197	-63.320	046	39.649	23.297	31.507
	1070.0	234936.0	22207.0	220	79.206	-63.013	043	39.616	23.283	31.581
	1071.0	234862.1	22196.4	221	79.216	-62.706	041	39.616	23.268	31.655
	1072.0	234788.0	22185.8	221	79.226	-62.376	035	39.641	23.254	31.729
	1073.0	234713.9	22175.2	221	79.235	-62.039	014	39.676	23.239	31.803
	1074.0	234639.7	22164.5	221	79.245	-61.695	.005	39.700	23.225	31.877
	1075.0	234565.6	22152.4	221	79.250	-61.363	•019	39.708	23.208	31.947
	1076.0	234491.7	22141.5	221	79.260	-61.028	.026	39.710	23.194	32.020
	1077.0	234418.0	22130.6	220	79.269	-60.700	.051	39.678	23.179	32.093
	1078.0	234344.5	22119.6	219	79.278	-60.379	•073	39.601	23.164	32.166
the book recent carry our water	1079.0	234271.3	22108.7	219	79.287	-60.056	.094	39.499	23.149	32.238
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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1080.0	234198.5	22097.9	218	79.297	-59.753	•133	39.398	23.134	32.311
	1081.0	234126.0	22087.1	217	79.307	-59.521	•195	39.317	23.120	32.383
	1082.0	234053.9	22076.3	216	79.316	-59.426	.202	39.254	23.105	32.455
	1083.0	233982.1	22065.6	215	79.326	-59.396	.198	39.204	23.090	32.526
	1084.0	233910.7	22054.8	214	79.336	-59.370	•203	39.205	23.076	32.597
	1085.0	233839.7	22044.0	213	79.345	-59.383	.227	39.224	23.061	32.667
	1086.0	233769.0	22033.2	213	79.355	-59.466	.231	39.254	23.047	32.737
	1087.0	233698.6	22022.4	212	79.364	-59.625	.209	39.281	23.032	32.807
	1088.0	233628.4	22011.5	212	79.374	-59.832	.179	39.287	23.017	32.876
	1089.0	233558.5	22000.6	211	79.383	-60.065	.158	39.278	23.003	32.945
	1090.0	233488.7	21989.7	211	79.392	-60.310	.132	39.264	22.988	33.014
	1091.0	233419.0	21978.8	211	79.401	-60.515	.095	39.256	22.974	33.083
	1092.0	233349.3	21967.8	211	79.410	-60.699	•066	39.254	22.959	33.152
<u>.</u> .	1093.0	233279.6	21956.9	211	79.419	-60.919	.033	39.244	22.944	33.221
	1094.0	233209.8	21946.0	211	79.428	-61.135	.011	39.236	22.930	33.290
T	1095.0	233139.8	21935.0	212	79.436	-61.364	012	39.228	22.915	33.359
	1096.0	233069.7	21923.9	212	79.445	-61.581	030	39.230	22.900	33.429
	1097.0	232999.4	21912.9	213	79.453	-61.799	084	39.227	22.885	33.498
	1098.0	232928.7	21901.8	214	79.461	-61.857	128	39.238	22.871	33.569
	1099.0	232857.8	21890.6	215	79.469	-61.815	125	39.234	22.856	33.639
	1100.0	232786.6	21879.5	216	79.477	-61.770	126	39.240	22.841	33.711
	1101.0	232715.1	21868.3	217	79.485	-61.711	137	39.233	22.826	33.782
	1102.0	232643.3	21857.1	218	79.493	-61.614	127	39.220	22.811	33.854
	1103.0	232571.1	21845.9	218	79.501	-61.504	128	39.202	22.796	33.927
	1104.0	232498.8	21834.7	219	79.509	-61.383	131	39.186	22.781	34.000
	1105.0	232426.1	21823.4	220	79.516	-61.239	138	39.181	22.766	34.074
	1106.0	232353.2	21812.1	221	79.524	-61.077	144	39.184	22.751	34.148
	1107.0	232280.0	21800.9	221	79.532	-60.910	157	39.195	22.736	34.222
	1108.0	232206.7	21789.5	222	79.540	-60.722	180	39.232	22.720	34.296
	1109.0	232133.1	21778.1	223	79.547	-60.482	186	39.256	22.705	34.371
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	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA	QA (PSF)
	1110.0	232059.4	21766.6	223	79.555	-60.200	173	39.270	22.690	34.446
	1111.0	231985.6	21755.1	223	79.562	-59.885	154	39.269	22.674	34.521
	1112.0	231911.8	21743.6	 223	79.570	-59.535	123	39.253	22.659	34.597
	1113.0	231838.0	21732.1	223	79.578	-59.229	073	39.243	22.644	34.672
	1114.0	231764.3	21720.6	223	79.586	-59.008	057	39.230	22.628	34.747
	1115.0	231690.6	21709.0	223	79.593	-58.795	064	39.218	22.613	34.822
	1116.0	231617.1	21697.5	223	79.601	-58.564	067	39.210	22.598	34.897
	1117.0	231543.7	21686.0	222	79.609	-58.325	047	39.211	22.582	34.972
	1118.0	231470.5	21674.4	222	79.617	-58.158	025	39.220	22.567	35.047
	1119.0	231397.4	21662.8	222	79.625	-58.016	•004	39.245	22.552	35.122
	1120.0	231324.6	21651.2	221	79.633	-57.895	.010	39.253	22.536	35.196
	1121.0	231251.9	21638.9	221	79.642	-57.797	•093	39.264	22.520	35.268
	1122.0	231179.5	21627.2	220	79.650	-57.896	•113	39.263	22.505	35.341
<u> </u>	1123.0	231107.3	21615.5	220	79.658	-58.065	.116	39.250	22.489	35.415
22	1124.0	231035.3	21603.8	219	79.665	-58.269	•093	39.245	22.474	35.487
•	1125.0	230963.4	21592.0	219	79.672	-58.506	•076	39.243	22.458	35.560
	1126.0	230891.6	21580.1	219	79.679	-58.740	.077	39.239	22.443	35.633
	1127.0	230819.7	21568.4	219	79.686	-58.962	•036	39.241	22.427	35.705
	1128.0	230747.8	21556.6	220	79.693	-59.108	•030	39.242	22.412	35.778
	1129.0	230675.8	21544.7	220	79.700	-59.222	.042	39.248	22.396	35.851
	1130.0	230603.7	21532.8	221	79.707	-59.383	.037	39.257	22.380	35.924
	1131.0	230531.4	21520.9	221	79.713	-59.575	002	39.255	22.365	35.998
	1132.0	230458.9	21509.0	222	79.720	-59.787	048	39.246	22.349	36.072
	1133.0	230386.2	21497.1	223	79.726	-59.982	084	39.236	22.334	36.146
	1134.0	230313.0	21485.1	224	79.732	-60.154	105	39.233	22.318	36.221
	1135.0	230239.5	21473.2	225	79.739	-60.289	108	39.232	22.302	36.297
	1136.0	230165.6	21461.2	226	79.745	-60.393	112	39.230	22.286	36.373
	1137.0	230091.2	21449.2	228	79.751	-60.484	116	39.233	22.271	36.450
	1138.0	230016.3	21437.2	229	79.756	-60.556	117	39.236	22.255	36.528
	1139.0	229940.9	21425.2	231	79.762	-60.614	154	39.238	22.239	36.607

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA.

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TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
1140.0	229864.9	21413.3	232	79.768	-60.708	053	39.251	22.223	36.687
1141.0	229788.6	21401.3	233	79.774	-61.415	•091	39.277	22.207	36.768
1142.0	229711.4	21389.2	237	79.779	-62.380	127	39.310	22.191	36.849
1143.0	229633.1	21377.1	239	79.784	-62.732	233	39.321	22.175	36.933
1144.0	229553.9	21364.9	242	79.789	-62.852	192	39.298	22.159	37.018
1145.0	229473.5	21352.9	245	79.794	-61.929	•715	39.240	22.143	37.105
1146.0	229392.3	21340.8	248	79.799	-61.958	•842	39.208	22.127	37.194
1147.0	229310.1	21328.6	250	79.803	-62.443	•521	39.253	22.111	37.284
1148.0	229227.0	21316.4	253	79.808	-62.765	•316	39.322	22.094	37.376
1149.0	229142.8	21304.0	256	79.812	-62.994	.184	39.366	22.078	37.469
1150.0	229057.5	21291.3	259	79.815	-63.204	.115	38.954	22.061	37.562
1151.0	228971.2	21279.6	263	79.820	-63.465	•030	37.826	22.045	37.662
1152.0	228883.2	21268.9	268	79.827	-63.746	035	37.475	22.030	37.767
_ 1153∙0	228793.4	21257.9	273	79.832	-63.996	093	37.827	22.015	37.875
2 1154.0	228702.0	21246.3	277	79.837	-64.196	130	38.475	21.999	37.984
1155.0	228609.0	21234.3	281	79.841	-64.412	165	39.041	21.982	38.093
1156.0	228514.3	21221.9	287	79.844	-64.425	257	39.407	21.965	38.205
1157.0	228417.7	21209.4	291	79.847	-63.540	569	39.624	21.948	38.319
1158.0	228319.7	21196.8	294	79.850	-62.096	561	39.743	21.930	38.436
1159.0	228220.8	21184.1	297	79.854	-60.760	288	39.791	21.913	38.554
1160.0	228121.2	21171.3	299	79.858	-59.856	215	39.794	21.895	38.673
1161.0	228021.0	21158.4	300	79.862	-59.069	161	39.771	21.878	38.793
1162.0	227920.4	21144.6	301	79.866	-58.343	123	39.741	21.859	38.911
1163.0	227819.7	21131.8	302	79.871	-57.696	080	39.713	21.841	39.033
1164.0	227718.8	21118.9	302	79.875	-57.145	074	39.675	21.824	39.155
1165.0	227618.0	21106.0	302	79.880	-56.695	018	39.633	21.806	39.277
1166.0	227517.3	21093.0	301	79.884	-56.391	•016	39.592	21.788	39.399
1167.0	227416.8	21080.1	301	79.889	-56.168	010	39.562	21.770	39.521
1168.0	227316.6	21067.2	301	79.893	-55.945	008	39.537	21.753	39.643
1169.0	227216.5	21054.3	300	79.898	-55.728	014	39.513	21.735	39.765

TIME	ALTOE	VELA	GAMA	HDGA	SIGMAA	BETAA	AL PHAA	MACHÁ	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
1170.0	227116.6	21041.4	300	79.903	-55.523	005	39.475	21.717	39.887
1171.0	227017.1	21028.4	299	79.907	-55.347	014	39.432	21.699	40.009
1172.0	226917.9	21015.4	298	79.911	-55.181	015	39.418	21.682	40.129
1173.0	226819.2	21002.3	297	79.915	-55.024	006	39.408	21.664	40.250
1174.0	226720.9	20989.3	296	79.920	-54.889	.001	39.372	21.646	40.369
1175.0	226622.9	20976.4	295	79.924	-54.754	•017	39.301	21.629	40.490
1176.0	226525.3	20963.7	295	79.929	-54.644	•039	39.225	21.611	40.610
1177.0	226428.0	20950.8	294	79.934	-54.545	•075	39.186	21.594	40.729
1178.0	226331.2	20937.8	292	79.938	-54.650	.143	39.196	21.576	40.848
1179.0	226234.8	20924.8	292	79.942	-54.891	.109	39.233	21.559	40.966
1180.0	226138.7	20911.7	291	79.946	-55.010	.017	39.261	21.541	41.083
1181.0	226043.1	20898.4	290	79.949	-55.034	.041	39.282	21.523	41.198
1182.0	225947.9	20885.0	289	79.952	-55.085	•053	39.277	21.505	41.314
1183.0	225853.2	20871.7	288	79.955	-55.127	016	39.235	21.488	41.428
1184.0	225758.8	20858.3	287	79.958	-54.995	059	39.160	21.470	41.542
1185.0	225664.8	20845.0	286	79.961	-54.789	055	39.067	21.452	41.656
1186.0	225571.3	20831.8	285	79.964	-54.596	060	38.988	21.434	41.769
1187.0	225478.3	20818.5	283	79.967	-54.411	062	38.922	21.417	41.882
1188.0	225385.7	20805.3	282	79.970	-54.219	059	38.870	21.399	41.995
1189.0	225293.7	20792.1	281	79.973	-54.020	051	38.864	21.382	42.106
1190.0	225202.1	20778.9	280	79.977	-53.828	049	38.900	21.364	42.217
1191.0	225111.2	20765.6	278	79.980	-53.635	028	38.931	21.347	42.326
1192.0	225020.9	20752.2	277	79.983	-53.436	009	38.948	21.329	42.435
1193.0	224931.2	20738.8	 275	79.986	-53.252	•014	38.945	21.312	42.542
1194.0	224842.3	20725.4	273	79.989	-53.079	.045	38.923	21.294	42.648
1195.0	224754.0	20712.1	271	79.992	-52.935	.055	38.908	21.277	42.753
1196.0	224666.5	20700.3	269	79.997	-52.840	.112	38.904	21.261	42.864
1197.0	224579.8	20686.9	267	80.000	-52.881	•142	38.895	21.243	42.967
1198.0	224493.8	20673.5	265	80.003	-52.990	.160	38.899	21.226	43.068
1199.0	224408.4	20660.0	264	80.006	-53.177	•165	38.887	21.208	43.168

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1200.0	224323.7	20646.5	262	80.008	-53.423	.159	38.877	21.191	43.267
	1201.0	224239.6	20632.9	261	80.010	-53.722	.164	38.882	21.174	43.364
	1202.0	224156.1	20619.3	260	80.012	-54.105	.141	38.882	21.156	43.461
	1203.0	224072.8	20605.8	259	80.014	-54.502	.094	38.881	21.139	43.557
	1204.0	223989.8	20592.2	259	80.016	-54.756	.079	38.877	21.121	43.654
	1205.0	223907.0	20578.7	258	80.017	-55.065	• 065	38.880	21.104	43.749
	1206.0	223824.3	20565.2	259	80.019	-55.428	• 040	38.876	21.087	43.845
	1207.0	223741.5	20551.7	259	80.020	-55.754	•012	38.874	21.069	43.942
	1208.0	223658.5	20538.1	260	80.021	-56.026	002	38.898	21.052	44.038
	1209.0	223575.2	20524.6	261	80.022	-56.296	031	38.943	21.035	44.136
	1210.0	223491.6	20511.1	262	80.022	-56.505	075	38.994	21.017	44.234
	1211.0	223407.5	20497.5	264	80.023	-56.702	107	- 39.038	21.000	44.333
	1212.0	223323.0	20483.9	265	80.023	-56.902	134	39.100	20.982	44.432
ᆫ	1213.0	223238.0	20470.0	267	80.023	-57.065	147	39.182	20.965	44.532
.25	1214.0	223152.5	20456.1	268	80.023	-57.184	131	39.254	20.947	44.632
ī	1215.0	223066.5	20442.1	270	80.022	-57.306	129	39.301	20.929	44.733
	1216.0	222980.0	20427.9	271	80.021	-57.419	122	39.313	20.911	44.835
	1217.0	222893.0	20413.8	273	80.020	-57.524	129	39.302	20.893	44.937
	1218.0	222805.4	20399.6	275	80.019	-57.612	140	39.281	20.874	45.041
	1219.0	222717.3	20385.3	277	80.017	-57.676	138	39.275	20.856	45.145
	1220.0	222628.6	20370.9	278	80.015	-57.721	144	39.281	20.838	45.251
	1221.0	222539.4	20356.5	280	80.013	-57.682	158	39.316	20.819	45.357
	1222.0	222449.6	20342.1	282	80.011	-57.466	172	39.319	20.801	45.464
	1223.0	222359.3	20327.6	283	80.009	-57.181	173	39.281	20.782	45.573
	1224.0	222268.5	20313.0	285	80.007	-56.831	160	39.241	20.764	45.682
	1225.0	222177.3	20298.5	286	80.004	-56.449	168	39.176	20.745	45.792
	1226.0	222085.9	20284.1	287	80.003	-56.010	130	39.148	20.727	45.903
	1227.0	221994.3	20269.5	287	80.001	-55.681	079	39.141	20.708	46.014
	1228.0	221902.7	20254.9	288	79.999	-55.362	050	39.140	20.689	46.125
	1229.0	221810.9	20240.3	288	79.997	-55.050	041	39.165	20.671	46.237

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1230.0	221719.3	20225.7	288	79.995	-54.707	016	39.188	20.652	46.348
	1231.0	221627.7	20211.0	288	79.993	-54.396	•024	39.201	20.633	46.459
	1232.0	221536.2	20196.3	287	79.991	-54.194	.038	39.194	20.615	46.570
	1233.0	221445.0	20182.4	287	79.990	-53.983	.039	39.172	20.597	46.684
	1234.0	221353.9	20167.7	287	79.989	-53.802	•073	39.157	20.578	46.795
	1235.0	221263.2	20152.9	286	79.987	-53.813	•162	39.156	20.559	46.904
	1236.0	221172.7	20138.1	285	79.985	-54.006	.199	39.179	20.540	47.013
	1237.0	221082.5	20123.1	285	79.983	-54.289	.190	39.196	20.521	47.121
	1238.0	220992.4	20108.0	285	79.980	-54.590	.152	39.206	20.502	47.228
	1239.0	220902.6	20092.8	284	79.976	-54.842	.124	39.177	20.483	47.335
	1240.0	220812.8	20077.7	284	79.973	-55.083	•113	39.120	20.464	47.441
	1241.0	220723.1	20062.4	285	79.969	-55.285	•058	39.097	20.445	47.548
	1242.0	220633.3	20047.1	285	79.965	-55.433	•038	39.090	20.426	47.654
-12	1243.0	220543.6	20031.7	285	79.960	-55.545	.051	39.080	20.406	47.759
26	1244.0	220453.8	20016.3	286	79.955	-55.634	.009	39.049	20.387	47.865
_	1245.0	220363.9	20000.9	286	79.950	-55.562	•008	38.992	20.368	47.971
	1246.0	220273.9	19985.5	287	79.945	-55.457	.032	38.909	20.349	48.078
	1247.0	220183.8	19970.2	287	79.941	-55.359	.039	38.836	20.329	48.186
	1248.0	220093.6	19954.9	288	79.936	-55.250	.055	38.809	20.310	48.293
	1249.0	220003.3	19939.5	288	79.931	-55.133	•073	38.837	20.291	48.401
	1250.0	219912.9	19924.0	288	79.926	-55.039	.074	38.863	20.272	48.508
	1251.0	219822.6	19908.5	289	79.920	-54.955	.076	38.874	20.252	48.616
	1252.0	219732.2	19893.0	289	79.915	-54.857	•086	38.874	20.233	48.723
	1253.0	219641.7	19877.4	289	79.910	-54.752	•107	38.862	20.213	48.831
	1254.0	219551.3	19861.8	289	79.905	-54.672	.114	38.842	20.194	48.938
	1255.0	219460.9	19846.3	290	79.899	-54.626	•106	38.827	20.175	49.046
	1256.0	219370.5	19830.7	290	79.894	-54.593	.102	38.821	20.155	49.154
	1257.0	219280.1	19815.1	290	79.888	-54.553	.104	38.824	20.136	49.261
	1258.0	219189.6	19799.4	291	79.882	-54.515	•117	38.843	20.116	49.369
	1259.0	219099.1	19783.6	291	79.877	-54.497	.127	38.861	20.097	49.476

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	O A
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1260.0	219008.7	19767.8	291	79.871	-54.481	.157	38.873	20.077	49.583
	1261.0	218918.2	19752.0	291	79.864	-54.513	•168	38.864	20.057	49.691
	1262.0	218827.7	19736.2	292	79.858	-54.596	.163	38.847	20.038	49.798
	1263.0	218737.1	19720.4	292	79.852	-54.704	.161	38.838	20.018	49.906
	1264.0	218646.3	19704.5	293	79.845	-54.817	.175	38.866	19.999	50.013
	1265.0	218555.4	19688.5	294	79.839	-54.971	.180	38.924	19.979	50.121
	1266.0	218464.4	19672.4	294	79.831	-55.177	.177	38.993	19.959	50.229
	1267.0	218373.1	19656.1	295	79.824	-55.394	•163	39.031	19.939	50.336
	1268.0	218281.7	19639.8	296	79.815	-55.649	•157	39.024	19.919	50.443
	1269.0	218189.9	19623.5	298	79.807	-55.850	•120	39.001	19.899	50.551
	1270.0	218097.8	19607.4	299	79.800	-55.982	•121	38.989	19.879	50.661
	1271.0	218005.2	19591.1	301	79.792	-56.158	•104	38.971	19.859	50.771
	1272.0	217912.0	19574.8	303	79.783	-56.358	•069	38.966	19.838	50.883
· 1	1273.0	217818.3	19558.4	305	79.774	-56.577	.034	38.994	19.818	50.995
27	1274.0	217723.9	19542.0	307	79.765	-56.784	•002	39.035	19.798	51.109
1	1275.0	217628.7	19525.5	310	79.755	-56.960	032	39.080	19.778	51.224
	1276.0	217532.7	19508.9	312	79.745	-57.085	040	39.123	19.757	51.340
	1277.0	217435.9	19492.3	315	79.735	-57.181	- •052	39.152	19.737	51.459
	1278.0	217338.1	19475.7	318	79.725	-57.239	049	39.176	19.716	51.579
	1279.0	217239.5	19458.9	321	79.715	-57.259	038	39.201	19.695	51.700
	1280.0	217139.9	19442.1	324	79.704	-57.250	020	39.227	19.674	51.824
	1281.0	217039.5	19425.3	327	79.693	-57.229	001	39.250	19.654	51.949
	1282.0	216938.1	19408.4	330	79.682	-57.208	002	39.254	19.633	52.076
	1283.0	216835.8	19391.5	 333	79.671	-57.179	•009	39.246	19.612	52.205
	1284.0	216732.5	19374.6	336	79.660	-57.146	.010	39.243	19.591	52.336
	1285.0	216628.2	19357.7	340	79.649	-57.128	•003	39.263	19.570	52.470
	1286.0	216523.0	19340.6	343	79.638	-57.089	006	39.306	19.548	52.605
	1287.0	216416.8	19323.5	346	79.626	-57.045	011	39.360	19.527	52.742
	1288.0	216309.7	19306.3	349	79.614	-57.004	020	39.415	19.506	52.881
	1289.0	216201.7	19288.8	352	79.601	-56.950	032	39.443	19.484	53.021
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STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA. PAGE 44

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA	QA (PSF)
	1290.0	216092.8	19271.3	355	79.589	-56.893	044	39.460	19.462	53.162
	1291.0	215983.2	19253.7	357	79.576	-56.826	041	39.464	19.440	53.304
	1292.0	215872.8	19235.9	360	79.562	-56.742	035	39.444	19.418	53.448
	1293.0	215761.8	19218.0	362	79.548	-56.648	024	39.428	19.396	53.592
	1294.0	215650.2	19200.0	364	79.534	-56.598	036	39.401	19.374	53.738
	1295.0	215538.0	19181.9	366	79.520	-56.542	053	39.367	19.351	53.884
	1296.0	215425.3	19163.7	368	79.505	-56.392	098	39.336	19.329	54.031
	1297.0	215312.1	19145.4	369	79.490	- 56 . 172	115	39.294	19.306	54.179
	1298.0	215198.6	19127.2	371	79.475	-55.914	149	39.257	19.283	54.328
	1299.0	215084.5	19109.0	373	79.460	-55.516	189	39.198	19.261	54.479
	1300.0	214970.2	19090.9	374	79.446	-54.985	139	39.129	19.238	54.631
	1301.0	214855.8	19071.9	374	79.433	-54.627	098	39.088	19.215	54.778
	1302.0	214741.3	19053.8	375	79.419	-54.367	090	39.075	19.192	54.932
ᆣ	1303.0	214626.6	19035.8	376	79.405	-54.104	071	39.090	19.170	55.085
128	1304.0	214512.0	19017.7	376	79.391	-53.914	019	39.112	19.148	55.239
ñ	1305.0	214397.3	18999.4	376	79.376	-53.889	•003	39.119	19.125	55.392
	1306.0	214282.9	18980.9	376	79.361	-53.911	.018	39.141	19.102	55.543
	1307.0	214168.7	18962.2	 375	79.345	-53.914	.051	39.175	19.079	55.693
	1308.0	214054.8	18943.4	375	79.329	-53.921	.059	39.184	19.056	55.842
	1309.0	213941.2	18924.5	374	79.314	-53.989	.171	39.179	19.033	55.990
	1310.0	213828.1	18905.6	373	79.297	-54.821	.236	39.178	19.010	56.136
	1311.0	213715.0	18886.6	375	79.279	-55.791	•004	39.156	18.987	56.282
	1312.0	213601.5	18867.6	376	79.260	-56.054	017	39.106	18.964	56.430
	1313.0	213487.7	18848.5	377	79.242	-56.198	•033	39.020	18.940	56.577
	1314.0	213373.6	18829.6	378	79.224	-54.462	1.620	38.894	18.917	56.727
	1315.0	213259.6	18810.8	378	79.206	-54.837	1.472	38.885	18.894	56.877
	1316.0	213145.5	18791.9	379	79.188	-55.642	•906	38.947	18.871	57.027
	1317.0	213031.2	18808.0	380	79.107	-56.052	• 599	38.895	18.883	57.391
	1318.0	212916.7	18789.3	382	79.086	-56.356	.429	37.728	18.860	57.544
	1319.0	212801.1	18772.3	386	79.068	-56.736	.246	37.313	18.839	57.711

******************* STSBBET USING LAIRJB (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. 45

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	AL TRE	VCLA	CANA	HDGA	SIGMAA	BETAA	AL PHAA	MACHA	 QA
TIME	ALTDE	VELA	GAMA	and the second s	(DEG)	(DEG)	(DEG)	(-)	(PSF)
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(050)	10207	1000		
1320.0	212684.1	18754.9	391	79.048	-57.050	.147	37.736	18.817	57.878
1321.0	212566.0	18736.7	394	79.027	-57.311	•096	38.226	18.795	58.044
1322.0	212446.7	18718.0	398	79.004	-57.589	• 058	38.558	18.772	58.210
1323.0	212326.5	18699.0	402	78.981	-57.862	•009	38.775	18.749	58.375
1324.0	212205.1	18679.7	406	78.958	-58.083	054	38.945	18.725	58.543
1325.0	212082.5	18660.2	410	78.933	-58.128	071	39.057	18.701	58.712
1326.0	211958.8	18640.6	414	78.909	-58.024	075	39.127	18.677	58.883
1327.0	211834.0	18620.8	417	78.884	-57.845	099	39.175	18.653	59.056
1328.0	211708.1	18600.9	421	78.859	-57.600	112	39.220	18.629	59.231
1329.0	211581.4	18580.8	424	78.832	-57.264	099	39.259	18.604	59.407
1330.0	211454.0	18560.7	426	78.807	-56.901	112	39.267	18.579	59.585
1331.0	211325.9	18540.5	429	78.782	-56.467	123	39.251	18.555	59.764
1332.0	211197.4	18520.3	431	78.757	-55.961	097	39.221	18.530	59.945
և 1333∙0	211068.5	18500.1	432	78.733	-55.534	055	39.212	18.505	60.126
2 1334.0	210939.3	18479.8	433	78.708	-55.240	029	39.227	18.481	60.309
1335.0	210810.1	18459.5	434	78.684	-54.991	029	39.231	18.456	60.491
1336.0	210680.6	18439.3	435	78.660	-54.672	.008	39.248	18.431	60.675
1337.0	210551.1	18419.0	435	78.636	-54.455	• 054	39.249	18.406	60.859
1338.0	210421.7	18398.7	436	78.612	-54.403	.113	39.271	18.382	61.043
1339.0	210292.2	18378.3	436	78.588	-54.541	.146	39.300	18.357	61.226
1340.0	210162.8	18357.8	437	78.563	-54.779	.130	39.319	18.332	61.408
1341.0	210033.2	18337.2	438	78.538	-55.026	.114	39.347	18.307	61.591
1342.0	209903.5	18316.5	439	78.513	-55.271	.106	39.359	18.282	61.775
1343.0	209773.4	18295.9	441	78.488	-55.490	•099	39.384	18.257	61.959
1344.0	209642.9	18275.2	443	78.462	-55.681	.120	39.405	18.232	62.145
1345.0	209511.9	18254.5	445	78.436	-55.865	.143	39.439	18.207	62.331
1346.0	209380.3	18233.6	448	78.410	-56.050	•161	39.494	18.182	62.519
1347.0	209248.1	18212.7	450	78.383	-56.244	.187	39.541	18.156	62.708
1348.0	209115.2	18191.8	453	78.357	-56.486	.185	39.585	18.131	62.898
1349.0	208981.4	18170.7	456	78.330	-56.742	.183	39.631	18.105	63.090

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TIME	ALTDE	VELA	GAHA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
1350.0	208846.8	18149.4	460	78.302	-57.007	•180	39.682	18.080	42 202
1351.0	208711.3	18128.1	464	78.274	-57.284	•180	39.723	18.054	63.283
1352.0	208574.7	18106.7	468	78.246	-57.589	.171	39.760	18.028	63.479
1353.0	208437.1	18085.1	472	78.216	-57.935	.153	39.798	18.002	63.677
1354.0	208298.2	18063.7	477	78.187	-58.281	.112	39.829	17.976	63.876
1355.0	208158.0	18041.7	481	78.157	-58.514			· ·	64.080
1356.0	208016.4	18020.6	486	78.132	-58.678	•069	39.853	17.950	64.285
						•061	39.854	17.924	64.498
1357.0	207873.5	17998.4	492	78.100	-58.864	•040	39.848	17.897	64.709
1358.0	207729.1	17976.1	497	78.068	-59.063	•002	39.850	17.870	64.922
1359.0	207583.1	17953.7	503	78.036	-59.132	037	39.849	17.843	65.139
1360.0	207435.7	17931.2	508	78.003	-59.086	020	39.852	17.816	65.359
1361.0	207286.7	17908.5	514	77.970	-59.055	041	39.840	17.789	65.584
1362.0	207136.2	17885.9	519	77.936	-58.897	063	39.839	17.762	65.812
1363.0	206984.2	17863.2	525	77.903	-58.656	081	39.841	17.734	66.044
1364.0	206830.8	17840.4	530	77.870	-58.359	074	39.830	17.706	66.280
1365.0	206676.0	17817.5	535	77.836	-58.007	041	39.834	17.679	66.519
1366.0	206520.0	17794.6	539	77.803	-57.779	004	39.835	17.651	66.762
1367.0	206362.9	17771.5	543	77.769	-57.593	• 005	39.836	17.623	67.006
1368.0	206204.8	17748.4	548	77.735	-57.407	006	39.845	17.595	67.254
1369.0	206045.6	17725.2	551	77.701	-57.219	012	39.864	17.567	67.504
1370.0	205885.6	17701.8	555	77.667	-57.072	.019	39.889	17.539	67.756
1371.0	205724.7	17678.3	559	77.633	-57.056	•042	39.922	17.511	68.009
1372.0	205562.9	17654.6	562	77.598	-57.037	• 058	39.962		
1373.0	205400.3	17630.7	 565	77.563	-57.044	•088		17.482	68.264
1374.0	205236.9	17606.7					39.988	17.453	68.521
			569	77.527	-57.130	.088	40.016	17.424	68.779
1375.0	205072.8	17582.6	572	77.491	-57.263	•079	40.039	17.395	69.038

-57.414

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STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. PAGE 47 *************************

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA	0A (PSF)
	1380.0	204237.7	17458.3	594	77.301	-58.321	•001	40.036	17.247	70.354
	1381.0	204067.3	17433.7	599	77.262	-58.543	019	40.044	17.217	70.630
	1382.0	203895.4	17409.0	605	77.222	-58.745	024	40.046	17.188	70.910
	1383.0	203722.1	17384.2	611	77.182	-58.941	040	40.077	17.158	71.194
	1384.0	203547.3	17359.1	516	77.140	-59.118	059	40.107	17.128	71.480
	1385.0	203371.2	17333.7	622	77.098	-59.265	063	40.140	17.098	71.768
	1386.0	203193.6	17308.2	628	77.054	-59.250	107	40.169	17.067	72.060
	1387.0	203014.5	17282.7	634	77.011	-58.964	143	40.163	17.037	72.357
•	1388.0	202834.0	17257.1	639	76.968	-58.571	156	40.151	17.006	72.658
	1389.0	202652.3	17231.5	644	76.925	-58.122	151	40.142	16.975	72.962
	1390.0	202469.6	17205.9	648	76.881	-57.631	116	40.135	16.945	73.270
	1391.0	202286.1	17180.2	651	76.839	-57.236	074	40.130	16.914	73.581
	1392.0	202101.8	17154.6	655	76.796	-56.970	040	40.121	16.883	73.895
<u></u>	1393.0	201917.0	17128.8	657	76.752	-56.814	067	40.123	16.852	74.210
31	1394.0	201731.7	17102.3	660	76.709	-56.640	065	40.119	16.821	74.521
i	1395.0	201546.0	17074.7	662	76.664	-56.444	065	40.133	16.789	74.824
	1396.0	201360.1	17048.3	664	76.618	-56.234	055	40.135	16.757	75.139
	1397.0	201174.2	17021.7	664	76.572	-56.012	048	40.121	16.726	75.453
	1398.0	200988.6	16994.9	664	76.526	-55.784	043	40.102	16.694	75.764
*	1399.0	200803.4	16968.1	664	76.479	-55.560	036	40.068	16.662	76.075
	1400.0	200618.7	16941.3	663	76.431	-55.339	055	40.002	16.631	76.386
	1401.0	200434.5	16914.7	663	76.384	-55.043	054	39.913	16.599	76.697
	1402.0	200250.8	16888.2	662	76.338	-54.693	022	39.830	16.568	77.008
	1403.0	200067.9	16861.7	660	76.291	-54.439	•028	39.787	16.537	77.318
	1404.0	199885.9	16835 • 4	658	76.244	-54.343	• 055	39.761	16.506	77.627
	1405.0	199704.6	16809.2	657	76.198	-54.283	.058	39.751	16.475	77.935
	1406.0	199524.1	16783.0	655	76.151	-54.282	.114	39.743	16.445	78.242
* .	1407.0	199344.4	16756.6	653	76.103	-54.503	.133	39.748	16.414	78.546
	1408.0	199165.4	16730.2	652	76.055	-54.909	.108	39.773	16.383	78.847
	1409.0	198987.2	16703.6	651	76.005	-55.337	•120	39.798	16.352	79.144

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
w	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
									* *** ** **** *****	
	1410.0	198809.5	16676.9	650	75.954	-55.805	•129	39.798	16.321	79.440
	1411.0	198632.2	16650.2	651	75.903	-56.236	• 08 3	39.795	16.290	79.734
	1412.0	198455.1	16623.6	651	75.849	-56.494	• 053	39.782	16.259	80.030
	1413.0	198278.1	16599.5	652	75.796	-56.733	.043	39.758	16.231	80.349
	1414.0	198101.1	16572.7	653	75.742	-56.983	.034	39.753	16.200	80.643
	1415.0	197923.9	16545.8	655	75.688	-57.218	013	39.746	16.169	80.937
	1416.0	197746.5	16518.8	658	75.633	-57.356	026	39.722	16.138	81.231
	1417.0	197568.8	16491.7	660	75.577	-57.473	021	39.707	16.107	81.526
	1418.0	197390.8	16464.5	662	75.521	-57.584	020	39.682	16.075	81.821
	1419.0	197212.4	16437.3	665	75.464	-57.704	024	39.680	16.044	82.117
	1420.0	197033.6	16410.1	668	75.408	-57.830	032	39.673	16.013	82.415
	1421.0	196854.3	16382.6	671	75.350	-57.938	035	39.687	15.981	82.713
_	1422.0	196674.4	16355.0	674	75.292	-58.043	040	39.699	15.950	83.011
<u> </u>	1423.0	196494.0	16327.4	677	75.233	-58.160	046	39.711	15.918	83.311
32	1424.0	196313.0	16299.6	680	75.173	-58.276	052	39.733	15.886	83.612
¶ ** ^	1425.0	196131.4	16271.7	684	75.113	-58.373	059	39.736	15.854	83.914
	1426.0	195949.0	16243.9	688	75.053	-58.450	059	39.743	15.822	84.220
*****	1427.0	195765.8	16215.9	692	74.993	-58.516	061	39.761	15.790	· ·
********	1428.0	195581.8	16187.7	696	74.931	-58.540	043	39.780	15.758	84.526
****************	1429.0	195397.1	16159.3	700	74.869	-58.554	024	39.796	15.726	84.834
	1430.0	195211.6	16130.7	704	74.806	-58.564	•002	39.813	15.694	85.142
	1431.0	195025.5	16102.1	708	74.736	-58.634	005	39.827	15.661	85.451
	1432.0	194838.7	16073.4	712	74.673	-58.730	025	39.832		85.763
	1433.0	194651.0	16044.5	716	74.609	-58.829	047	39.846	15.628	86.075
	1434.0	194462.6	16015.5	721	74.544	-58.941	070		15.596	86.389
	1435.0	194273.3	15986.2	725	74.479	-59.013	the state of the s	39.845	15.563	86.704
	1436.0	194083.2	15956.6	730	74.413	-59.044	081	39.916	15.530	87.021
	1437.0	193892.3	15926.5	734	74.346	and the second s	059	40.018	15.496	87.336
	1438.0	193700.7	15896.4	734 738		-59.065	037	40.019	15.462	87.649
	1439.0	193508.2	and the second of the second o		74.280	-59.113	031	39.964	15.428	87.965
	A7376U	143200 02	15866.4	743	74.213	-59.051	069	39.912	15.395	88.284

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* STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA.	PAGE	49	

(SEC) (FT) (FPS) (DEG) (DEG) (DEG) (DEG) 1440.0 193314.9 15836.4747 74.146 -58.928058 1441.0 193120.9 15806.4751 74.079 -58.822066 1442.0 192926.1 15776.3755 74.012 -58.703076 1443.0 192730.6 15746.0759 73.945 -58.556075 1444.0 192534.6 15715.6763 73.877 -58.395072 1445.0 192338.1 15684.9766 73.809 -58.288057 1446.0 192141.3 15654.1769 73.740 -58.203013 1447.0 191944.1 15623.2772 73.672 -58.157 .042 1448.0 191746.6 15592.1775 73.605 -58.245 .059 1449.0 191548.6 15558.9778 73.544 -58.489 .040 1450.0 191350.2 15527.9782 73.474 -58.734006	LPHAA MACHA (DEG) (-) 39.885 15.361 39.892 15.327 39.908 15.293 39.897 15.259 39.867 15.225 39.859 15.191 39.818 15.156 39.739 15.122	9A (PSF) 88.607 88.932 89.260 89.588 89.916
1440.0 193314.9 15836.4 747 74.146 -58.928 058 1441.0 193120.9 15806.4 751 74.079 -58.822 066 1442.0 192926.1 15776.3 755 74.012 -58.703 076 1443.0 192730.6 15746.0 759 73.945 -58.556 075 1444.0 192534.6 15715.6 763 73.877 -58.395 072 1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.885 15.361 39.892 15.327 39.908 15.293 39.897 15.259 39.867 15.225 39.859 15.191 39.818 15.156	88.607 88.932 89.260 89.588 89.916
1441.0 193120.9 15806.4 751 74.079 -58.822 066 1442.0 192926.1 15776.3 755 74.012 -58.703 076 1443.0 192730.6 15746.0 759 73.945 -58.556 075 1444.0 192534.6 15715.6 763 73.877 -58.395 072 1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.892 15.327 39.908 15.293 39.897 15.259 39.867 15.225 39.859 15.191 39.818 15.156	88.932 89.260 89.588 89.916
1441.0 193120.9 15806.4 751 74.079 -58.822 066 1442.0 192926.1 15776.3 755 74.012 -58.703 076 1443.0 192730.6 15746.0 759 73.945 -58.556 075 1444.0 192534.6 15715.6 763 73.877 -58.395 072 1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.908 15.293 39.897 15.259 39.867 15.225 39.859 15.191 39.818 15.156	89.260 89.588 89.916
1442.0 192926.1 15776.3 755 74.012 -58.703 076 1443.0 192730.6 15746.0 759 73.945 -58.556 075 1444.0 192534.6 15715.6 763 73.877 -58.395 072 1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.897 15.259 39.867 15.225 39.859 15.191 39.818 15.156	89.588 89.916
1443.0 192730.6 15746.0 759 73.945 -58.556 075 1444.0 192534.6 15715.6 763 73.877 -58.395 072 1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.867 15.225 39.859 15.191 39.818 15.156	89.916
1444.0 192534.6 15715.6 763 73.877 -58.395 072 1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.859 15.191 39.818 15.156	
1445.0 192338.1 15684.9 766 73.809 -58.288 057 1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	39.859 15.191 39.818 15.156	66.046
1446.0 192141.3 15654.1 769 73.740 -58.203 013 1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006		90.243
1447.0 191944.1 15623.2 772 73.672 -58.157 .042 1448.0 191746.6 15592.1 775 73.605 -58.245 .059 1449.0 191548.6 15558.9 778 73.544 -58.489 .040 1450.0 191350.2 15527.9 782 73.474 -58.734 006	10 710 15 122	90.570
1448.0 191746.6 15592.1775 73.605 -58.245 .059 1449.0 191548.6 15558.9778 73.544 -58.489 .040 1450.0 191350.2 15527.9782 73.474 -58.734006	39.739 15.122	90.898
1449.0 191548.6 15558.9778 73.544 -58.489 .040 1450.0 191350.2 15527.9782 73.474 -58.734006	39.685 15.087	91.224
1450.0 191350.2 15527.9782 73.474 -58.734006	39.671 15.050	91.529
	39.672 15.016	91.860
1451.0 191151.1 15496.8786 73.403 -58.885025	39.659 14.981	92.193
	39.636 14.947	92.528
	39.685 14.912	92.866
	39.787 14.877	93.202
	39.846 14.842	93.536
	39.848 14.806	93.872
	39.859 14.771	94.209
	39.822 14.736	94.546
	39.795 14.700	94.885
# 10 10 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0	39.757 14.665	95.222
	39.718 14.629	95.555
	39.705 14.593	95.886
	39.673 14.558	96.216
	39.611 14.522	96.547
	39.541 14.489	96.897
	39.506 14.453	97.218
	39.483 14.418	97.538
1468.0 187718.0 14953.2812 72.107 -56.266 .072	39.484 14.382	97.851
1469.0 187520.3 14920.4810 72.025 -55.775184		

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E ALTDE C) (FT) .0 187323. .0 187129. .0 186939. .0 186753.	(FPS) 8 14887.3	GAMA (DEG) 806	HDGA (DEG) 71.941	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA	QA (PSF)
.0 187129. .0 186939.		806	71 061					
.0 187129. .0 186939.			11.741	-54.098	272	39.473	14.311	98.455
.0 186939.		796	71.861	-51.598	055	39.426	14.275	98.740
	2 14820.6	781	71.784	-49.613	.048	39.337	14.239	99.011
		764	71.708	-47.827	.018	39.203	14.203	99.266
.0 186573.	2 14754.5	743	71.637	-46.216	•136	39.095	14.168	99.504
.0 186398.	9 14721.7	720	71.566	-45.294	.208	39.010	14.133	99.718
.0 186231.	2 14688.7	696	71.496	-44.899	.193	38.934	14.098	99.907
.0 186070.	0 14655.9	672	71.426	-44.823	.214	38.876	14.064	100.071
.0 185915.	4 14623.2	649	71.355	-45.035	.172	38.835	14.029	100.210
.0 185767.	0 14590.3	626	71.283	-45.285	.150	38.792	13.995	100.323
.0 185624.	9 14557.6	603	71.210	-45.580	•126	38.740	13.960	100.413
.0 185488.	6 14524.9	582	71.136	-45.871	•112	38.681	13.926	100.480
.0 185358.	1 14492.4	561	71.062	-46.199	•149	38.630	13.893	100.526
.0 185233.	2 14459.7	540	70.986	-46.674	.196	38.624	13.859	100.548
.0 185113.	6 14428.4	521	70.902	-47.363	.158	38,609	13.827	100.567
.0 184998.	9 14395.8	504	70.823	-48.102	.138	38.572	13.793	100.550
.0 184888.	6 14363.3	489	70.743	-48.840	.129	38.555	13.760	100.515
.0 184782.	4 14330.6	475	70.661	-49.623	•123	38.525	13.727	100.462
.0 184679.	7 14298.0	462	70.577	-50.285	.053	38.497	13.694	100.395
.0 184580.	2 14265.4	451	70.492	-50.853	.063	38.467	13.661	100.315
.0 184483.	6 14233.0	442	70.406	-51.435	.051	38.438	13.628	100.224
.0 184389.	4 14200.6	433	70.319	-51.974	.027	38.411	13.595	100.124
.0 184297.	4 14168.2	427	70.231	-52.447	.020	38.389	13.562	100.016
·0 184207·	1 14135.9	421	70.142	-52.876	•031	38.403	13.530	99.901
.0 184118.	5 14103.5	416	70.052	-53.293	.042	38.410	13.497	99.777
.0 184031.	1 14071.2	413	69.961	-53.716	•038	38.408	13.465	99.649
.0 183944.	7 14038.8	410	69.869	-54.131	.019	38.422	13.432	99.517
·0 183859·	0 14006.6	409	69.777	-54.513	.001	38.423	13.400	99.381
	7 13074.2	- 400	49 694	_54 Q51	- 019	38.467	12 267	99.244
0 183773.	1 1371763		07.004	-740071		30 040 1	13.30/	778644
	184998. 184888. 184782. 184679. 184580. 184483. 184389. 184297. 184207. 184118. 184931. 183944. 183859.	184998.9 14395.8 184888.6 14363.3 184782.4 14330.6 184679.7 14298.0 184580.2 14265.4 184483.6 14233.0 184389.4 14200.6 184297.4 14168.2 184207.1 14135.9 184118.5 14103.5 184031.1 14071.2 183944.7 14038.8 183859.0 14006.6	184998.9 14395.8504 184888.6 14363.3489 184782.4 14330.6475 184679.7 14298.0462 184580.2 14265.4451 184483.6 14233.0442 184389.4 14200.6433 184297.4 14168.2427 184207.1 14135.9421 184118.5 14103.5416 184031.1 14071.2413 183944.7 14038.8410 183959.0 14006.6409	184998.9 14395.8 504 70.823 184888.6 14363.3 489 70.743 184782.4 14330.6 475 70.661 184679.7 14298.0 462 70.577 184580.2 14265.4 451 70.492 184483.6 14233.0 442 70.406 184389.4 14200.6 433 70.319 184297.4 14168.2 427 70.231 184207.1 14135.9 421 70.142 184118.5 14103.5 416 70.052 184031.1 14071.2 413 69.961 183944.7 14038.8 410 69.869 183859.0 14006.6 409 69.777	184998.9 14395.8504 70.823 -48.102 184888.6 14363.3489 70.743 -48.840 184782.4 14330.6475 70.661 -49.623 184679.7 14298.0462 70.577 -50.285 184580.2 14265.4451 70.492 -50.853 184483.6 14233.0442 70.406 -51.435 184389.4 14200.6433 70.319 -51.974 10 184297.4 14168.2427 70.231 -52.447 10 184207.1 14135.9421 70.142 -52.876 184118.5 14103.5416 70.052 -53.293 184031.1 14071.2413 69.961 -53.716 183944.7 14038.8410 69.869 -54.131 10 183859.0 14006.6409 69.777 -54.513	184998.9 14395.8504 70.823 -48.102 .138 10 184888.6 14363.3489 70.743 -48.840 .129 10 184782.4 14330.6475 70.661 -49.623 .123 10 184679.7 14298.0462 70.577 -50.285 .053 10 184580.2 14265.4451 70.492 -50.853 .063 10 184483.6 14233.0442 70.406 -51.435 .051 10 184389.4 14200.6433 70.319 -51.974 .027 10 184297.4 14168.2427 70.231 -52.447 .020 10 184207.1 14135.9421 70.142 -52.876 .031 10 184118.5 14103.5416 70.052 -53.293 .042 10 184031.1 14071.2413 69.961 -53.716 .038 10 183944.7 14038.8410 69.869 -54.131 .019 10 183859.0 14006.6409 69.777 -54.513 .001	10 184998.9 14395.8 504 70.823 -48.102 .138 38.572 10 184888.6 14363.3 489 70.743 -48.840 .129 38.555 10 184782.4 14330.6 475 70.661 -49.623 .123 38.525 10 184679.7 14298.0 462 70.577 -50.285 .053 38.497 10 184580.2 14265.4 451 70.492 -50.853 .063 38.467 10 184483.6 14233.0 442 70.406 -51.435 .051 38.438 10 184389.4 14200.6 433 70.319 -51.974 .027 38.411 10 184297.4 14168.2 427 70.231 -52.447 .020 38.389 10 184207.1 14135.9 421 70.142 -52.876 .031 38.403 10 184031.1 14071.2 413 69.961 -53.716 .038 38.408 10 183944.7 14038.8 410 69.869 <td>0 184998.9 14395.8 504 70.823 -48.102 .138 38.572 13.793 0 184888.6 14363.3 489 70.743 -48.840 .129 38.555 13.760 0 184782.4 14330.6 475 70.661 -49.623 .123 38.525 13.727 0 184679.7 14298.0 462 70.577 -50.285 .053 38.497 13.694 0 184580.2 14265.4 451 70.492 -50.853 .063 38.467 13.661 0 184483.6 14233.0 442 70.406 -51.435 .051 38.438 13.628 0 184389.4 14200.6 433 70.319 -51.974 .027 38.411 13.595 0 184297.4 14168.2 427 70.231 -52.447 .020 38.389 13.562 0 184118.5 14103.5 416 70.052 -53.293 .042 38.410 13.497 0 183944.7 14038.8 410 69.869 -54.131 .019 38.422 13.432 0 183859.0 14006.6<!--</td--></td>	0 184998.9 14395.8 504 70.823 -48.102 .138 38.572 13.793 0 184888.6 14363.3 489 70.743 -48.840 .129 38.555 13.760 0 184782.4 14330.6 475 70.661 -49.623 .123 38.525 13.727 0 184679.7 14298.0 462 70.577 -50.285 .053 38.497 13.694 0 184580.2 14265.4 451 70.492 -50.853 .063 38.467 13.661 0 184483.6 14233.0 442 70.406 -51.435 .051 38.438 13.628 0 184389.4 14200.6 433 70.319 -51.974 .027 38.411 13.595 0 184297.4 14168.2 427 70.231 -52.447 .020 38.389 13.562 0 184118.5 14103.5 416 70.052 -53.293 .042 38.410 13.497 0 183944.7 14038.8 410 69.869 -54.131 .019 38.422 13.432 0 183859.0 14006.6 </td

	TIME (SEC)	ALTDE (FT)	VELA	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	1500.0	183603.5	13909.4	411	69.494	-55.349	038	38.641	13.302	98.958
	1501.0	183518.3	13876.8	413	69.398	-55.478	025	38.693	13.269	98.812
	1502.0	183432.9	13844.1	415	69.302	-55.566	027	38.707	13.237	98.665
	1503.0	183347.2	13811.5	418	69.205	-55.586	018	38.709	13.204	98.519
	1504.0	183261.1	13778.9	421	69.108	-55.551	.002	38.700	13.171	98.374
	1505.0	183174.6	13746.3	424	69.011	-55.468	.023	38.698	13.139	98.230
	1506.0	183087.6	13713.8	427	68.914	-55.355	.036	38.692	13.106	98.087
	1507.0	183000 • 1	13681.3	430	68.817	-55.242	•036	38.695	13.074	97.946
	1508.0	182912.2	13648.9	433	68.720	-55.120	.040	38.697	13.041	97.806
	1509.0	182823.7	13616.5	436	68.622	-54.991	.043	38.690	13.009	97.669
	1510.0	182734.7	13584.2	440	68.526	-54.906	.092	38.706	12.976	97.533
	1511.0	182645.2	13552.0	444	68.428	-54.939	.099	38.721	12.944	97.399
	1512.0	182555.0	13519.7	448	68.331	-54.988	.114	38.752	12.911	97.266
	1513.0	182464.1	13487.4	452	68.232	-55.083	.116	38.779	12.879	97.134
7 7	1514.0	182372.3	13455.1	457	68.134	-55.229	.104	38.806	12.847	97.005
1	1515.0	182279.5	13422.9	463	68.035	-55.354	.125	38.897	12.814	96.879
	1516.0	182185.6	13390.5	470	67.936	-55.534	.149	39.034	12.782	96.755
	1517.0	182090.4	13357.8	476	67.835	-55.825	.147	39.119	12.749	96.629
	1518.0	181993.9	13324.3	484	67.731	-56.168	.089	39.172	12.716	96.496
	1519.0	181895.7	13289.1	493	67.622	-56.391	.038	39.194	12.680	96.343
		181795.8	13256 • 4	502	67.519	-56.448	.073	39.192	12.648	96.231
	1520.0	181693.9	13223.7	512	67.416	-56.559	.093	39.196	12.615	96.125
	1521.0	181590.1	13191.1	522	67.312	-56.724	.091	39.204	12.582	96.026
	1522.0	and the second s	13158.4	533	67.207	-56.916	.088	39.216	12.549	95.934
	1523.0	181484.2	13125.8	545	67.102	-57.073	.045	39.226	12.516	95.849
	1524.0	181375.9	13093.2	557	66.997	-57.147	•043	39.294	12.483	95.772
	1525.0	181265.3	the contract of the contract o	570	66.891	-57.203	•030	39.383	12.450	95.700
	1526.0	181152.1	13060.5	583	66.784	-57.147	.023	39.413	12.417	95.636
	1527.0	181036.4	13027.7	 596	66.677	-57.033	008	39.417	12.384	95.580
	1528.0	180918.1	12994.9	609	66.571	-56.801	016	39.415	12.351	95.533
	1529.0	180797.3	12962.1	009	00.017	- 20 toot		3,4.2		

	TIME	AL TDE	VELA	GAMA	HDGA	SIGMAA	BE T AA	AL PHA A	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1530.0	180674.0	12929.5	621	66.464	-56.513	026	39.407	12.318	95.494
	1531.0	180548.2	12896.9	634	66.357	-56.167	108	39.411	12.285	95.464
	1532.0	180419.8	12864.3	648	66.250	-54.835	546	39.439	12.252	95.442
	1533.0	180289.2	12831.6	655	66.146	-51.170	571	39.509	12.219	95.424
	1534.0	180158.6	12798.8	652	66.050	-46.209	155	39.558	12.185	95.402
	1535.0	180030.4	12766.0	638	65.964	-41.417	116	39.575	12.152	95.370
	1536.0	179906.5	12733.2	616	65.888	-36.587	117	39.582	12.119	95.323
	1537.0	179788.9	12700.5	586	65.822	-31.744	142	39.591	12.086	95.253
	1538.0	179679.0	12667.7	549	65.768	-26.833	178	39.600	12.053	95.154
	1539.0	179578.3	12635.1	506	65.726	-21.812	203	39.594	12.020	95.023
	1540.0	179487.8	12602.5	458	65.697	-16.647	176	39.602	11.988	94.854
	1541.0	179408.6	12570.0	406	65.683	-11.399	121	39.609	11.956	94.646
	1542.0	179341.3	12537.5	351	65.683	-6.206	104	39.621	11.924	94.395
7	1543.0	179286.3	12505.0	296	65.697	-1.027	120	39.658	11.892	94.101
`	1544.0	179243.5	12472.6	240	65.726	4.213	102	39.716	11.861	93.764
	1545.0	179212.8	12440.2	186	65.770	9.404	079	39.758	11.829	93.385
	1546.0	179193.6	12407.8	134	65.828	14.573	081	39.807	11.798	92.966
	1547.0	179185.1	12375.5	087	65.901	19.742	092	39.851	11.768	92.512
	1548.0	179186.2	12343.2	046	65.987	24.959	098	39.899	11.737	92.031
	1549.0	179195.4	12311.1	011	66.086	30.210	098	39.952	11.706	91.552
	1550.0	179211.0	12279.1	.015	66.197	35.469	079	40.003	11.676	91.077
	1551.0	179231.1	12247.3	.031	66.320	40.707	080	40.061	11.646	90.605
	1552.0	179253.6	12215.4	.038	66.454	45.965	062	40.157	11.615	90.135
	1553.0	179276.3	12183.6	•034	66.597	51.190	046	40.253	11.585	89.666
	1554.0	179296.7	12151.9	.018	66.750	56.375	052	40.356	11.555	89.200
	1555.0	179312.1	12120.2	012	66.911	61.308	•110	40.470	11.525	88.735
	1556.0	179319.7	12088.6	054	67.077	64.871	•271	40.563	11.495	88.272
	1557.0	179317.6	12057.1	103	67.247	66.884	•305	40.626	11.465	87.813
	1558.0	179304.6	12025.6	155	67.417	68.000	· 230	40.705	11.435	87.355
	1559.0	179280.6	11994.0	 209	67.589	68.919	.212	40.806	11.405	86.897

-136-

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	1560.0	179244.8	11962.4	266	67.762	69.650	•187	40.969	11.375	86.439
	1561.0	179197.1	11930.4	324	67.937	70.139	•203	41.184	11.344	85.978
	1562.0	179137.0	11898.7	384	68.110	70.359	.214	41.355	11.313	85.676
	1563.0	179064.6	11866.3	444	68.285	70.462	.208	41.457	11.282	85.441
	1564.0	178979.7	11833.8	505	68.460	70.333	.231	41.554	11.250	85.245
	1565.0	178882.4	11801.3	565	68.636	69.960	.231	41.662	11.217	85.088
•	1566.0	178773.0	11768.4	625	68.810	69.411	.218	41.771	11.185	84.963
	1567.0	178651.7	11735.6	-,683	68.985	68.746	•211	41.857	11.152	84.876
	1568.0	178518.9	11703.2	740	69.156	67.995	.212	41.916	11.119	84.830
	1569.0	178375.0	11670.5	795	69.330	67.038	.218	41.962	11.086	84.813
	1570.0	178220.4	11637.6	847	69.503	65.859	.216	42.035	11.053	84.828
	1571.0	178055.9	11604.7	896	69.676	64.584	.199	42.120	11.020	84.872
	1572.0	177882.0	11571.7	942	69.847	63.183	.185	42.163	10.986	84.944
<u></u>	1573.0	177699.7	11538.8	985	70.017	61.668	.170	42.159	10.953	85.042
37	1574.0	177509.6	11506.0	-1.024	70.185	60.039	.152	42.141	10.919	85.167
· 1	1575.0	177312.4	11473.3	-1.059	70.351	58.277	.100	42.142	10.886	85.314
	1576.0	177109.3	11440.6	-1.089	70.514	56.804	.021	42.150	10.852	85.479
	1577.0	176900.9	11407.8	-1.117	70.677	55.675	• 040	42.126	10.819	85.660
	1578.0	176687.7	11375.1	-1.142	70.839	54.614	.014	42.099	10.785	85.856
	1579.0	176470.3	11342.4	-1.165	71.001	53.596	.007	42.080	10.752	86.066
	1580.0	176249.2	11309.7	-1.186	71.161	52.615	.018	42.076	10.718	86.287
•	1581.0	176024.7	11277.0	-1.204	71.321	51.626	007	42.057	10.685	86.518
•	1582.0	175797.5	11244.4	-1.220	71.479	50.746	013	42.025	10.652	86.759
	1583.0	175567.7	11211.8	-1.234	71.637	49.822	018	41.980	10.618	87.008
	1584.0	175336.1	11180.7	-1.246	71.800	49.003	045	41.934	10.586	87.286
	1585.0	175102.8	11148.0	-1.256	71.957	48.258	033	41.881	10.553	87.545
	1586.0	174868.5	11115.2	-1.264	72.114	47.540	016	41.840	10.520	87.804
	1587.0	174633.3	11082.3	-1.270	72.270	46.876	012	41.783	10.486	88.066
	1588.0	174397.8	11049.4	-1.275	72.427	46.231	.034	41.690	10.453	88.326
	1589.0	174162.1	11016.3	-1.278	72.583	45.420	.077	41.597	10.419	88.585

								•		* *
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1590.0	173926.8	10983.3	-1.278	72.738	44.503	• 093	41.505	10.386	88.842
	1591.0	173692.1	10950.3	-1.276	72.891	43.562	•086	41.413	10.353	89.097
	1592.0	173458.7	10917.2	-1.272	73.043	42.607	.079	41.309	10.320	89.347
	1593.0	173226.8	10884.3	-1.266	73.193	41.775	.038	41.183	10.286	89.594
	1594.0	172996.8	10851.6	-1.259	73.341	41.298	016	41.048	10.254	89.837
	1595.0	172768.8	10819.0	-1.252	73.489	41.139	027	40.924	10.221	90.074
	1596.0	172542.8	10786.4	-1.244	73.637	41.285	058	40.845	10.188	90.303
	1597.0	172318.8	10753.8	-1.238	73.788	41.732	017	40.793	10.156	90.525
	1598.0	172096.6	10721.7	-1.231	73.942	42.323	.021	40.736	10.124	90.749
	1599.0	171875.9	10688.1	-1.227	74.097	43.002	•040	40.671	10.090	90.940
	1600.0	171656.5	10655.5	-1.224	74.254	43.708	•069	40.588	10.058	91.143
	1601.0	171438.1	10623.0	-1.224	74.413	44.413	•063	40.496	10.026	91.344
	1602.0	171220.1	10590.6	-1.225	74.574	45.148	•079	40.423	9.994	91.544
	1603.0	171002.4	10558.4	-1.228	74.737	45.875	.087	40.385	9.962	91.745
38	1604.0	170784.4	10526.1	-1.233	74.902	46.604	•091	40.369	9.930	91.945
1	1605.0	170565.8	10493.8	-1.240	75.070	47.316	.094	40.351	9.898	92.147
	1606.0	170346.4	10461.5	-1.249	75.239	48.026	.100	40.317	9.866	92.351
	1607.0	170125.7	10429.4	-1.261	75.410	48.716	•103	40.279	9.835	92.560
	1608.0	169903.4	10397.4	-1.274	75.583	49.364	• 089	40.256	9.803	92.777
	1609.0	169679.0	10365.4	-1.289	75.759	50.027	.104	40.241	9.772	93.000
	1610.0	169452.3	10333.4	-1.307	75.936	50.601	.199	40.227	9.740	93.232
	1611.0	169222.8	10301.4	-1.327	76.116	50.361	• 365	40.266	9.709	93.471
	1612.0	168990.5	10269.2	-1.343	76.295	48.884	• 438	40.312	9.677	93.717
	1613.0	168756.5	10236.4	-1.354	76.468	46.699	.217	40.349	9.645	93.957
	1614.0	168521.8	10204.0	-1.358	76.638	44.647	.129	40.357	9.613	94.206
	1615.0	168287.4	10171.6	-1.359	76.805	42.604	.244	40.321	9.582	94.452
	1616.0	168054.0	10139.2	-1.353	76.966	39.991	.183	40.277	9.550	94.694
	1617.0	167822.8	10106.8	-1.342	77.121	37.589	.084	40.214	9.519	94.929
	1618.0	167594.7	10074.7	-1.326	77.269	35.748	•040	40.136	9.487	95.155
	1619.0	167370.4	10042.5	-1.307	77.414	34.435	•035	40.048	9.456	95.367

				•					William Co.	
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	OA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1620.0	167150.2	10010.6	-1.286	77.555	33.480	•034	39.933	9.425	95.565
	1621.0	166934.4	9978.8	-1.264	77.694	32.839	011	39.827	9.394	95.750
	1622.0	166723.1	9947.2	-1.241	77.833	32.603	011	39.748	9.364	95.920
	1623.0	166516.3	9915.6	-1.219	77.972	32.703	.020	39.665	9.333	96.073
	1624.0	166313.9	9884.0	-1.197	78.112	33.083	• 045	39.582	9.303	96.209
	1625.0	166115.8	9852.6	-1.176	78.254	33.631	.061	39.505	9.272	96.330
	1626.0	165921.7	9821.3	-1.157	78.398	34.224	.080	39.422	9.242	96.437
	1627.0	165731.3	9790.1	-1.140	78.543	34.833	.101	39.337	9.212	96.532
	1628.0	165544.2	9758.0	-1.124	78.695	35.469	.137	39.247	9.182	96.595
	1629.0	165360.2	9728.0	-1.109	78.848	36.071	.100	39.163	9.153	96.684
	1630.0	165179.0	9697.1	-1.097	79.000	36.854	•060	39.113	9.123	96.746
	1631.0	165000.3	9666.3	-1.086	79.156	37.740	.099	39.071	9.094	96.798
-	1632.0	164823.8	9635.5	-1.076	79.314	38.635	•121	39.015	9.064	96.839
1	1633.0	164649.2	9604.8	-1.070	79.475	39.436	.180	38.949	9.035	96.875
139	1634.0	164475.9	9574.2	-1.065	79.638	39.957	.206	38.860	9.006	96.905
ĭ	1635.0	164303.8	9543.8	-1.061	79.802	40.340	•175	38.759	8.977	96.934
	1636.0	164132.7	9513.5	-1.059	79.968	40.747	.165	38.665	8.948	96.961
	1637.0	163962.2	9483.5	-1.059	80.134	41.135	.160	38.578	8.919	96.988
	1638.0	163792.0	9453.7	-1.060	80.301	41.498	.146	38.514	8.891	97.016
	1639.0	163622.0	9424.0	-1.063	80.469	41.852	.128	38.471	8.862	97.044
	1640.0	163452.0	9394.4	-1.067	80.638	42.279	•105	38.435	8.834	97.073
	1641.0	163281.7	9364.9	-1.072	80.809	42.842	•116	38.416	8.806	97.103
	1642.0	163110.8	9335.3	-1.079	80.982	43.414	.126	38.397	8.778	97.134
	1643.0	162939.1	9305.8	-1.087	81.158	44.001	•153	38.364	8.750	97.165
	1644.0	162766.4	9276.3	-1.097	81.335	44.526	.194	38.333	8.722	97.200
	1645.0	162592.4	9247.0	-1.109	81.514	44.840	.217	38.306	8.694	97.241
	1646.0	162416.8	9217.7	-1.122	81.693	45.043	.230	38.249	8.666	97.288
	1647.0	162239.5	9189.9	-1.136	81.871	45.232	.239	38.192	8.640	97.371
******	1648.0	162060.4	9159.6	-1.151	82.061	45.409	• 265	38.137	8.611	97.407
	1649.0	161879.3	9130.7	-1.167	82.243	45.535	.270	38.094	8.584	97.477
										1.0

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TIME	ALTDE								
(SEC)	(FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
				er ver i de Technic esses					T. J.
1650.0	161696.2	9101.9	-1.183	82.425	45.561	• 239	38.064	8.557	97.555
1651.0	161511.0	9073.1	-1.199	82.607	45.548				97.641
1652.0	161323.7	9044.3	-1.215	82.789	45.531	the state of the s		and the second s	97.734
1653.0	161134.4	9015.6	-1.232	82.972					97.833
1654.0	160943.0	8987.0	-1.248			the state of the s	and the second s		97.942
1655.0	160749.6	8958.5	-1.265	83.337	45.115				98.059
1656.0	160554.1	8930.1	-1.280	83.519	44.719				98.185
1657.0	160356.9	8901.8	-1.295	83.699	44.184				98.320
1658.0	160157.9	8873.8	-1.310	83.879	43.505		and the second s	and the second s	98.463
1659.0	159957.3	8845.9	-1.321	84.053	42.209				98.617
1660.0	159755.9	8818.2	-1.330	84.224	41.114		The state of the s		98.776
1661.0	159553.7	8790.5	-1.336	84.394	40.323		1.7		98.935
1662.0	159351.2	8762.8	-1.344	84.564	41.719	1 1 1 1	and the second of the second o		99.096
1663.0	159147.6	8735.4	-1.357	84.740	43.190		the second of th		99.266
1664.0	158942.6	8706.7	-1.369	84.917	41.413				99.413
1665.0	158736.6	8680.8	-1.376	85.077	40.199		the first of the second of the		99.623
1666.0	158530.3	8653.5	-1.382	85.245	40.013	the state of the s		WITH A DECEMBER OF THE STREET	99.802
1667.0	158323.7	8626.3	-1.388	85.411	39.797		the state of the state of the state of	the second of th	99.984
1668.0	158116.8	8599.2	-1.393	85.579	39.634				100.170
1669.0	157909.3	8573.9	-1.404	85.741	39.463		to the second se		100.398
1670.0	157700.8	8548.0	-1.412	85.905	39.267	the state of the s	the state of the state of the state of		100.613
1671.0	157491.8	8521.6	-1.418	86.070	39.072	.237			100.818
1672.0	157282.8	8494.8	-1.421	86.236	38.859	.217	the state of the s	the state of the s	101.014
1673.0	157074.1	8467.8	-1.422	86.400	39.307				101.203
1674.0	156865.4	8440.9	-1.429	86.572	40.637		*** * * * * * * * * * * * * * * * * * *		101.392
1675.0	156656.2	8414.1	-1.438	86.746	41.129		the second secon		101.585
1676.0	156446.1	8387.4	-1.448	86.920	41.095			and the second s	101.782
1677.0	156235.2	8360.7	-1.457	87.094	41.002	.201			101.981
1678.0	156023.7	8334.0	-1.465	87.269	40.832	.182			102.182
1679.0	155811.7	8308.1	-1.471	87.444	40.589	•175			102.404
	1650.0 1651.0 1652.0 1653.0 1654.0 1655.0 1656.0 1657.0 1658.0 1660.0 1661.0 1662.0 1663.0 1664.0 1665.0 1667.0 1668.0 1667.0 1670.0	1650.0 161696.2 1651.0 161511.0 1652.0 161323.7 1653.0 161134.4 1654.0 160943.0 1655.0 160749.6 1656.0 160554.1 1657.0 160356.9 1658.0 160157.9 1659.0 159957.3 1660.0 159755.9 1661.0 159553.7 1662.0 159351.2 1663.0 159147.6 1664.0 158942.6 1665.0 158736.6 1666.0 158530.3 1667.0 158323.7 1668.0 158116.8 1669.0 157700.8 1671.0 157491.8 1672.0 157282.8 1673.0 157074.1 1674.0 156865.4 1675.0 156656.2 1676.0 156446.1 1677.0 156235.2	1650.0 161696.2 9101.9 1651.0 161511.0 9073.1 1652.0 161323.7 9044.3 1653.0 161134.4 9015.6 1654.0 160943.0 8987.0 1655.0 160749.6 8958.5 1656.0 160554.1 8930.1 1657.0 160356.9 8901.8 1658.0 160157.9 8873.8 1659.0 159957.3 8845.9 1660.0 159755.9 8818.2 1661.0 159553.7 8790.5 1662.0 159351.2 8762.8 1663.0 159147.6 8735.4 1664.0 158942.6 8706.7 1665.0 158736.6 8680.8 1666.0 158530.3 8653.5 1667.0 158323.7 8626.3 1669.0 157909.3 8573.9 1670.0 157700.8 8548.0 1671.0 157491.8 8521.6 1672.0 157282.8 8494.8 1673.0 157074.1 8467.8 1675.0 156656.2 8414.1 1676.0 156446.1 8387.4 1677.0 156235.2 8360.7 1678.0 156023.7 8334.0	1650.0 161696.2 9101.9 -1.183 1651.0 161511.0 9073.1 -1.199 1652.0 161323.7 9044.3 -1.215 1653.0 161134.4 9015.6 -1.232 1654.0 160943.0 8987.0 -1.248 1655.0 160749.6 8958.5 -1.265 1656.0 160554.1 8930.1 -1.280 1657.0 160356.9 8901.8 -1.295 1658.0 160157.9 8873.8 -1.310 1659.0 159957.3 8845.9 -1.321 1660.0 159755.9 8818.2 -1.330 1661.0 159553.7 8790.5 -1.336 1662.0 159351.2 8762.8 -1.344 1663.0 159147.6 8735.4 -1.357 1664.0 158942.6 8706.7 -1.369 1665.0 158736.6 8680.8 -1.376 1666.0 158530.3 8653.5 -1.382 1667.0 158323.7 8626.3 -1.388 1669.0 157700.8 8548.0<	1650.0 161696.2 9101.9 -1.183 82.425 1651.0 161511.0 9073.1 -1.199 82.607 1652.0 161323.7 9044.3 -1.215 82.789 1653.0 161134.4 9015.6 -1.232 82.972 1654.0 160943.0 8987.0 -1.248 83.155 1655.0 160749.6 8958.5 -1.265 83.337 1656.0 160554.1 8930.1 -1.280 83.519 1657.0 160356.9 8901.8 -1.295 83.699 1658.0 160157.9 8873.8 -1.310 83.879 1659.0 159957.3 8845.9 -1.321 84.053 1660.0 159755.9 8818.2 -1.330 84.224 1661.0 159553.7 8790.5 -1.336 84.394 1662.0 159351.2 8762.8 -1.344 84.564 1663.0 159147.6 8735.4 -1.357 84.740 1664.0 158942.6 8706.7 -1.369 84.917 1665.0 158736.6 8680.8 -1.376 85.077 1666.0 158323.7 8626.3 -1.382 85.245 1667.0 158323.7 8626.3 -1.382 85.245 1667.0 158736.6 8599.2 -1.393 85.579 1669.0 157700.8 8548.0 -1.412 85.905 1671.0 1577491.8 8521.6 -1.418 86.070 1672.0 157282.8 8494.8 -1.421 86.236 1673.0 157774.1 8467.8 -1.422 86.400 1674.0 156865.4 8440.9 -1.429 86.572 1675.0 156656.2 8414.1 -1.438 86.746 1676.0 156446.1 8387.4 -1.448 86.920 1677.0 156235.2 8360.7 -1.465 87.269	1650.0 161696.2 9101.9 -1.183 82.425 45.561 1651.0 161511.0 9073.1 -1.199 82.607 45.548 1652.0 161323.7 9044.3 -1.215 82.789 45.531 1653.0 161134.4 9015.6 -1.232 82.972 45.522 1654.0 160943.0 8987.0 -1.248 83.155 45.397 1655.0 160749.6 8958.5 -1.265 83.337 45.115 1656.0 160554.1 8930.1 -1.280 83.519 44.719 1657.0 160356.9 8901.8 -1.295 83.699 44.184 1658.0 160157.9 8873.8 -1.310 83.879 43.505 1659.0 159957.3 8845.9 -1.321 84.053 42.209 1660.0 159755.9 8818.2 -1.330 84.224 41.114 1661.0 159553.7 8790.5 -1.336 84.394 40.323 1662.0 159351.2 8762.8 -1.344 84.564 41.719 1663.0 159147.6 8735.4 -1.357 84.740 43.190 1664.0 158942.6 8706.7 -1.369 84.917 41.413 1665.0 158323.7 8626.3 -1.382 85.245 40.013 1667.0 158323.7 8626.3 -1.382 85.245 40.013 1667.0 158323.7 8626.3 -1.388 85.411 39.797 1668.0 157909.3 8573.9 -1.404 85.741 39.463 1670.0 157700.8 8548.0 -1.412 85.905 39.267 1671.0 157491.8 8521.6 -1.418 86.070 39.072 1672.0 157282.8 8494.8 -1.421 86.236 38.859 1673.0 156656.2 8414.1 -1.438 86.746 41.129 1676.0 156859.2 8360.7 -1.442 86.920 40.637 1675.0 156635.2 8340.9 -1.4429 86.572 40.637 1675.0 156635.2 8360.7 -1.448 86.920 41.095 1677.0 156235.2 8360.7 -1.465 87.269 40.832	1650.0 161696.2 9101.9 -1.183 82.425 45.561 .239 1651.0 161511.0 9073.1 -1.199 82.607 45.548 .209 1652.0 161323.7 9044.3 -1.215 82.789 45.531 .193 1653.0 161134.4 9015.6 -1.232 82.972 45.522 .205 1654.0 160943.0 8987.0 -1.248 83.155 45.397 .240 1655.0 160749.6 8958.5 -1.265 83.337 45.115 .230 1656.0 160554.1 8930.1 -1.280 83.519 44.719 .278 1657.0 160356.9 8901.8 -1.295 83.699 44.184 .254 1658.0 160157.9 8873.8 -1.310 83.879 43.505 .302 1659.0 159957.3 8845.9 -1.321 84.053 42.209 .294 1660.0 159755.9 8818.2 -1.330 84.224 41.114 -0.053 1661.0 159553.7 8790.5 -1.336 84.394 40.323423 1662.0 159351.2 8762.8 -1.344 84.564 41.719 .818 1663.0 15914.6 8735.4 -1.357 84.740 43.190 2.172 1665.0 158736.6 8680.8 -1.376 85.077 40.199 .324 1666.0 158530.3 8653.5 -1.386 85.917 41.413 1.107 1665.0 158736.6 8680.8 -1.376 85.077 40.199 .324 1660.0 159709.3 8653.5 -1.382 85.245 40.013 .268 1667.0 158323.7 8626.3 -1.388 85.411 39.797 .241 1668.0 158116.8 8599.2 -1.393 85.579 39.634 .230 1667.0 15709.3 8573.9 -1.404 85.741 39.463 .245 1670.0 157700.8 8548.0 -1.412 85.905 39.267 .273 1671.0 157491.8 8521.6 -1.418 86.070 39.072 .237 1672.0 157282.8 8494.8 -1.422 86.400 39.307 -0.70 1674.0 156655.2 8414.1 -1.428 86.920 41.095 .249 1677.0 1566235.2 8360.7 -1.465 87.269 40.832 .182	1650.0 161696.2 9101.9 -1.183 82.425 45.561 .239 38.064 1651.0 161511.0 9073.1 -1.199 82.607 45.548 .209 38.054 1652.0 161323.7 9044.3 -1.215 82.789 45.531 .193 38.030 1653.0 161134.4 9015.6 -1.232 82.972 45.522 .205 37.995 1654.0 160943.0 8987.0 -1.248 83.155 45.397 .240 37.873 1655.0 160749.6 8958.5 -1.265 83.337 45.115 .230 37.873 1656.0 160554.1 8930.1 -1.280 83.519 44.719 .278 37.813 1657.0 160356.9 8901.8 -1.295 83.699 44.184 .254 37.748 1659.0 159957.3 8845.9 -1.321 84.053 42.209 .294 37.607 1660.0 159755.9 8818.2 -1.310 83.879 43.505 .302 37.680 1659.0 159553.7 8790.5 -1.321 84.053 42.209 .294 37.607 1660.0 159755.9 8818.2 -1.330 84.224 41.114053 37.558 1662.0 159351.2 8762.8 -1.344 84.564 41.719 .818 37.445 1663.0 159147.6 8735.4 -1.357 84.740 43.190 2.172 37.329 1664.0 158942.6 8706.7 -1.369 84.917 41.413 1.107 37.365 1665.0 158530.3 8653.5 -1.362 85.245 40.013 .268 37.316 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .268 37.312 1667.0 158323.7 8626.3 -1.388 85.41 39.403 .263 37.366 1667.0 158744.8 8599.2 -1.393 85.5579 39.634 .230 36.605 1699.0 157700.8 8548.0 -1.412 85.905 39.634 .230 36.605 1699.0 157700.8 8548.0 -1.412 86.236 38.859 .217 36.896 1673.0 157491.8 8521.6 -1.412 86.236 38.859 .217 36.896 1673.0 157491.8 8521.6 -1.412 86.236 38.859 .217 36.896 1675.0 156656.2 8414.1 -1.428 86.670 39.072 .237 36.689 1675.0 156656.2 8414.1 -1.428 86.670 39.072 .237 36.689 1675.0 156656.2 8414.1 -1.448 86.920 41.095 .249 36.689 1677.0 156235.2 8360.7 -1.465 86.920 41.095 .249 36.689 1677.0 15623.7 8334.0 -1.465 86.920 41.095 .249 36.689 1677.0 156235.2 8360.7 -1.465 86.920 41.095 .249 36.689 1677.0 15623.7 8334.0 -1.465 86.920 41.095 .249 36.689 1677.0 15623.7 8334.0 -1.465 86.920	1650.0 161696.2 9101.9 -1.183 82.425 45.561 .239 38.064 8.557 1651.0 161511.0 9073.1 -1.199 82.607 45.548 .209 38.054 8.529 1652.0 161323.7 9044.3 -1.215 82.789 45.531 .193 38.030 8.502 1653.0 161134.4 9015.6 -1.232 82.972 45.522 .205 37.995 8.475 1654.0 160943.0 8987.0 -1.248 83.155 45.397 .240 37.945 8.448 1655.0 160749.6 8958.5 -1.265 83.337 45.115 .230 37.873 8.421 1656.0 160554.1 8930.1 -1.280 83.519 44.719 .278 37.813 8.394 1657.0 160356.9 8901.8 -1.295 83.699 44.184 .254 37.488 8.368 1658.0 160157.9 8873.8 -1.310 83.879 43.505 .302 37.680 8.341 1659.0 159957.3 8845.9 -1.321 84.053 42.209 .204 37.607 8.315 1660.0 159755.9 8818.2 -1.330 84.224 41.114 -0.053 37.558 8.289 1661.0 159553.7 8790.5 -1.336 84.394 40.323423 37.521 8.263 1662.0 159351.2 8762.8 -1.336 84.394 40.323423 37.521 8.263 1662.0 159351.2 8762.8 -1.336 84.917 41.413 1.107 37.365 8.287 1663.0 159147.6 8735.4 -1.357 84.740 43.190 2.172 37.329 8.211 1664.0 158942.6 8706.7 -1.369 84.917 41.413 1.107 37.365 8.184 1665.0 158736.8 8706.7 -1.369 84.917 41.413 1.107 37.365 8.184 1665.0 158736.8 860.8 -1.376 85.077 40.199 .324 37.366 8.160 1666.0 158530.3 8653.5 -1.382 85.245 40.013 .268 37.312 8.134 1667.0 158323.7 8626.3 -1.388 85.471 39.797 .241 37.230 8.109 1668.0 158736.8 8599.2 -1.338 85.579 39.634 .230 36.605 8.083 1669.0 157700.8 8599.2 -1.338 85.579 39.634 .230 36.605 8.083 1669.0 157700.8 8599.2 -1.338 86.541 39.797 .241 37.230 8.109 1668.0 158136.8 8599.2 -1.338 85.579 39.634 .230 36.605 8.083 1669.0 157700.8 8599.2 -1.404 85.741 39.493 .245 36.324 8.060 1670.0 157700.8 8590.2 -1.416 86.070 39.072 .237 36.806 8.011 1672.0 15728.8 8494.8 -1.421 86.236 38.859 .217 36.896 7.986 1673.0 157074.1 846.0 -1.422 86.400 39.307 -0.70 36.607 7.966 1674.0 156656.2 8414.1 -1.438 86.746 41.129 .316 36.782 7.910 1676.0 156656.2 8414.1 -1.438 86.746 41.129 .316 36.782 7.910 1676.0 156656.2 8414.1 -1.438 86.746 41.029 .316 36.699 7.886 1673.0 156056.2 8414.1 -1.448 86.920 41.005 .249 36.609 7.886 1677.0 156053.2 8304.0 -1.446 86.920 41.005 .249 36.609

57 STSBBET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. PAGE

TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
·····									
1680.0	155599.4	8283.3	-1.477	87.623	40.297	.174	36.376	7.789	102.652
1681.0	155386.9	8256.6	-1.482	87.797	39.939	•187	36.272	7.764	102.855
1682.0	155174.3	8229.9	-1.487	87.970	39.497	.179	36.137	7.739	103.056
1683.0	154961.7	8203.4	-1.491	88.141	39.020	•202	35.977	7.715	103.260
1684.0	154749.2	8177.0	-1.493	88.309	38.543	.207	35.839	7.690	103.465
1685.0	154537.0	8150.7	-1.496	88.476	38.232	.167	35.711	7.666	103.671
1686.0	154325.1	8124.5	-1.498	88.642	38.190	.116	35.613	7.642	103.876
1687.0	154113.4	8098.2	-1.501	88.809	38.445	•111	35.534	7.617	104.078
1688.0	153901.8	8072.0	-1.505	88.976	38.855	.126	35.447	7.593	104.280
1689.0	153690.1	8045.8	-1.512	89.145	39.350	.128	35.360	7.569	104.482
1690.0	153478.0	8019.7	-1.520	89.316	39.866	.152	35.285	7.545	104.686
1691.0	153265.2	7993.6	-1.530	89.489	40.308	.153	35.234	7.521	104.891
1692.0	153051.6	7967.4	-1.541	89.663	40.755	•165	35.193	7.497	105.097
<u> </u>	152836.9	7941.2	-1.554	89.838	41.143	•156	35.145	7.473	105.306
1694.0	152620.9	7915.1	-1.568	90.015	41.453	.132	35.099	7.448	105.521
1695.0	152403.5	7888.9	-1.584	90.185	41.829	.087	35.059	7.424	105.738
1696.0	152184.4	7861.3	-1.602	90.344	42.248	•036	35.038	7.399	105.924
1697.0	151963.5	7835.2	-1.621	90.525	42.632	•002	35.009	7.375	106.157
1698.0	151740.5	7809.1	-1.641	90.708	43.008	027	34.996	7.351	106.397
1699.0	151515.4	7783.0	-1.663	90.893	43.390	039	34.978	7.327	106.643
1700.0	151288.0	7756.8	-1.685	91.081	43.766	059	34.961	7.303	106.899
1701.0	151058.1	7730.7	-1.709	91.271	44.059	049	34.942	7.279	107.164
1702.0	150825.6	7704.6	-1.734	91.463	44.217	062	34.919	7.255	107.439
1703.0	150590.4	7678.5	-1.760	91.655	44.294	104	34.881	7.231	107.726
1704.0	150352.5	7652.4	-1.786	91.849	44.318	146	34.835	7.207	108.025
1705.0	150111.8	7626.3	-1.812	92.045	44.332	159	34.776	7.184	108.333
1706.0	149868.5	7600.2	-1.838	92.242	44.372	157	34.712	7.160	108.654
1707.0	149622.4	7574.1	-1.864	92.440	44.360	169	34.661	7.136	108.985
1708.0	149373.7	7548.0	-1.890	92.641	44.308	169	34.596	7.112	109.326
1709.0	149122.3	7521.8	-1.915	92.846	44.133	120	34.529	7.088	109.675

	TIME	ALTDE	VELA	CAMA	· · · · · · · · · · · · · · · · · · ·	CTCMAA	DETAIN			en skaret je sa sa sa sa
-	(SEC)	(FT)	(FPS)	GAMA (DEG)	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(350)		(173)	(000)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1710.0	148868.5	7495.6	-1.940	93.055	43.804	068	34.456	7.065	110.035
	1711.0	148612.3	7469.4	-1.963	93.258	43.326	017	34.371	7.041	110.406
	1712.0	148354.0	7443.3	-1.985	93.460	42.661	.026	34.273	7.017	110.788
	1713.0	148094.0	7417.1	-2.003	93.661	41.840	.013	34.162	6.993	111.174
	1714.0	147832.7	7390.8	-2.017	93.862	41.031	.020	34.047	6.970	111.564
	1715.0	147570.6	7364.6	-2.029	94.060	40.219	•038	33.945	6.946	111.958
	1716.0	147307.9	7338.5	-2.039	94.257	39.378	• 055	33.833	6.922	112.357
	1717.0	147045.0	7312.4	-2.046	94.451	38.453	•073	33.699	6.899	112.759
	1718.0	146782.2	7286.6	-2.051	94.641	37.560	.020	33.542	6.875	113.166
	1719.0	146519.8	7260.8	-2.054	94.828	36.897	036	33.387	6.852	113.575
	1720.0	146257.9	7235.2	-2.055	95.015	36.542	062	33.255	6.829	113.984
	1721.0	145996.9	7209.6	-2.055	95.200	36.450	116	33.170	6.806	114.393
	1722.0	145736.6	7184.8	-2.055	95.392	36.551	164	33.106	6.784	114.818
1	1723.0	145477.3	7159.0	-2.055	95.583	36.677	222	33.007	6.760	115.209
42	1724.0	145218.8	7133.2	-2.055	95.775	36.892	214	32.881	6.737	115.596
ı	1725.0	144961.1	7107.4	-2.056	95.970	37.148	190	32.737	6.714	115.977
	1726.0	144704.2	7081.5	-2.057	96.167	37.454	161	32.576	6.691	116.354
	1727.0	144447.9	7055.8	-2.059	96.366	37.765	138	32.445	6.667	116.728
	1728.0	144192.3	7029.9	-2.061	96.569	38.133	107	32.329	6.644	117.095
	1729.0	143937.1	7004.0	-2.065	96.775	38.513	013	32.199	6.621	117.459
	1730.0	143682.3	6978.2	-2.070	96.983	38.800	•048	32.070	6.598	117.821
	1731.0	143427.7	6952.5	-2.076	97.192	38.851	•062	31.934	6.574	118.186
	1732.0	143173.0	6927.0	-2.084	97.401	38.939	.074	31.788	6.552	118.558
	1733.0	142918.2	6901.6	-2.093	97.611	39.062	•098	31.665	6.529	118.933
	1734.0	142663.1	6875.9	-2.104	97.824	39.186	.093	31.546	6.506	119.296
	1735.0	142407.4	6848.1	-2.117	98.040	39.353	•090	31.453	6.481	119.590
	1736.0	142151.1	6823.2	-2.130	98.253	39.607	.119	31.400	6.458	119.983
	1737.0	141894.1	6798.4	-2.144	98.468	39.834	•095	31.332	6.436	120.385
W	1738.0	141636.3	6773.7	-2.158	98.683	40.136	•045	31.277	6.414	120.796
	1739.0	141377.4	6749.1	-2.174	98.901	40.519	017	31.243	6.392	121.212

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	1740.0	141117.6	6724.6	-2.191	99.122	41.053	002	31.217	6.370	121.635
-	1741.0	140856.4	6700.1	-2.212	99.350	40.994	•327	31.190	6.348	122.066
	1742.0	140593.8	6675.6	-2.227	99.575	38.487	.516	31.186	6.326	122.503
	1743.0	140331.3	6650.9	-2.225	99.784	34.010	.291	31.184	6.304	122.931
	1744.0	140070.9	6626.1	-2.208	99.973	29.232	.147	31.127	6.282	123.345
	1745.0	139814.2	6601.4	-2.176	100.139	24.400	•078	31.023	6.260	123.742
	1746.0	139562.7	6576.9	-2.134	100.279	19.527	•023	30.871	6.238	124.120
	1747.0	139317.4	6552.9	-2.084	100.396	14.673	002	30.711	6.217	124.483
	1748.0	139079.0	6528.3	-2.029	100.492	9.804	.003	30.543	6.195	124.786
	1749.0	138847.9	6504.6	-1.970	100.554	5.009	.027	30.397	6.173	125.083
	1750.0	138624.5	6481.1	-1.909	100.590	.248	.066	30.327	6.152	125.346
	1751.0	138408.8	6457.6	-1.848	100.599	-4.444	.123	30.269	6.131	125.568
,	1752.0	138200.6	6434.3	-1.789	100.582	-9.117	•175	30.208	6.110	125.754
l	1760 0	137999.4	6411.1	-1.737	100.539	-13.798	.233	30.128	6.089	125.907
143	1754.0	137804.4	6388.1	-1.691	100.470	-18.566	.279	30.048	6.069	126.030
Ý	1755.0	137614.8	6365.3	-1.655	100.375	-23.473	.314	29.981	6.048	126.131
	1756.0	137429.3	6342.6	-1.630	100.254	-28.572	•331	29.972	6.027	126.211
	1757.0	137246.5	6319.8	-1.619	100.106	-33.822	.313	29.990	6.007	126.270
	1758.0	137064.8	6297.0	-1.623	99.932	-39.128	•329	29.971	5.986	126.321
	1759.0	136882.3	6274.3	-1.648	99.732	-44.320	.231	29.910	5.966	126.380
	1760.0	136696.5	6251.8	-1.695	99.510	-48.192	011	29.802	5.945	126.459
	1761.0	136505.7	6229.6	-1.753	99.279	-49.947	041	29.620	5.925	126.576
	1762.0	136309.0	6207.8	-1.816	99.046	-50.893	004	29.440	5.906	126.739
	1763.0	136106.0	6187.0	-1.884	98.808	-51.618	•026	29.344	5.887	126.971
	1764.0	135896.3	6170.0	-1.954	98.577	-52.288	.066	29.325	5.872	127.397
	1765.0	135679.6	6148.7	-2.028	98.334	-52.933	.063	29.302	5.853	127.683
	1766.0	135455.5	6127.4	-2.106	98.087	-53.335	.057	29.286	5.834	128.008
	1767.0	135224.0	6106.0	-2.184	97.837	-53.583	.097	29.261	5.815	128.366
	1768.0	134985.1	6084.5	-2.262	97.582	-53.742	.086	29.233	5.796	128.758
	1769.0	134738.8	6062.7	-2.340	97.323	-53.606	.069	29.214	5.777	129.178

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
								The second secon		
	1770.0	134485.4	6040.9	-2.416	97.063	-53.184	•035	29.182	5.757	129.635
	1771.0	134225.0	6019.0	-2.490	96.804	-52.335	•008	29.102	5.738	130.128
	1772.0	133958.2	5997.2	-2.559	96.547	-51.277	005	29.002	5.719	130.657
	1773.0	133685.5	5975.3	-2.623	96.292	-50.002	.002	28.917	5.699	131.219
	1774.0	133407.5	5953.3	-2.681	96.040	-48.624	.030	28.839	5.680	131.805
* *	1775.0	133124.9	5931.3	-2.733	95.791	-47.401	.061	28.773	5.661	132.416
	1776.0	132838.3	5908.8	-2.781	95.545	-46.206	•079	28.698	5.641	133.031
	1777.0	132548.2	5885.6	-2.824	95.281	-45.034	•084	28.597	5.621	133.633
	1778.0	132255.2	5863.4	-2.861	95.040	-44.022	.131	28.525	5.601	134.296
Mile habital name on a	1779.0	131959.9	5841.0	-2.892	94.800	-43.297	•133	28.455	5.582	134.967
	1780.0	131662.9	5818.5	-2.920	94.560	-42.688	•135	28.381	5.562	135.641
	1781.0	131364.4	5795.9	-2.945	94.322	-41.979	.145	28.295	5.542	136.326
	1782.0	131064.8	5773.5	-2.967	94.088	-41.145	•155	28.179	5.523	137.021
<u> </u>	1783.0	130764.3	5751.1	-2.985	93.859	-40.469	.199	28.060	5.503	137.726
4	1784.0	130463.3	5728.6	-3.002	93.628	-40.191	• 246	27.939	5.483	138.431
	1785.0	130162.0	5706.1	-3.017	93.397	-39.988	.318	27.784	5.464	139.138
	1786.0	129860.5	5683.6	-3.032	93.165	-40.406	•176	27.659	5.444	139.851
	1787.0	129558.7	5661.2	-3.049	92.933	-38.991	1.055	27.519	5.424	140.567
	1788.0	129256.7	5636.8	-3.062	92.694	-38.805	1.415	27.408	5.403	141.186
	1789.0	128954.6	5614.5	-3.079	92.457	-40.470	.818	27.376	5.384	141.914
*****	1790.0	128651.9	5592.3	-3.099	92.216	-41.065	•654	27.300	5.364	142.649
	1791.0	128348.5	5570.3	-3.120	91.975	-41.695	•600	27.147	5.345	143.400
	1792.0	128044.1	5548.6	-3.147	91.729	-43.398	.481	26.994	5.326	144.178
_	1793.0	127737.7	5527.1	-3.186	91.472	-44.975	•336	26.907	5.307	144.979
	1794.0	127428.7	5505.7	-3.228	91.210	-45.619	•305	26.798	5.289	145.802
	1795.0	127116.9	5484.3	-3.270	90.943	-45.952	.288	26.663	5.270	146.646
	1796.0	126802.5	5462.9	-3.311	90.673	-46.235	• 295	26.534	5.252	147.514
	1797.0	126485.2	5441.8	-3.357	90.399	-46.563	.109	26.426	5.234	148.411
	1798.0	126165.0	5420.7	-3.399	90.121	-45.112	139	26.364	5.215	149.335
	1799.0	125842.8	5400.8	-3.423	89.862	-41.799	022	26.198	5.198	150.343
										1700373

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. PAGE 61

								• •		
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	800.0	125520.5	5379.6	-3.432	89.617	-39.255	•072	26.018	5.180	151.286
	801.0	125199.0	5358.7	-3.435	89.384	-37.271	•049	25.807	5.162	152.238
	802.0	124878.9	5337.8	-3.430	89.162	-35.533	•095	25.657	5.144	153.193
	803.0	124560.9	5317.0	-3.419	88.948	-34.637	.120	25.555	5.126	154.136
	804.0	124245.4	5296.0	-3.404	88.733	-34.359	.180	25.471	5.108	155.057
	805.0	123932.7	5274.8	-3.386	88.516	-34.468	•168	25.378	5.089	155.950
	806.0	123623.0	5253.6	-3.369	88.297	-34.594	•149	25.270	5.071	156.822
	807.0	123316.1	5232 • 4	-3.352	88.078	-34.535	.145	25.124	5.053	157.679
	808.0	123012.2	5211.4	-3.334	87.861	-34.434	.161	24.931	5.034	158.525
	809.0	122711.0	5190.1	-3.319	87.648	-34.495	.158	24.763	5.016	159.344
	810.0	122412.4	5169.3	-3.303	87.431	-34.531	.158	24.629	4.998	160.167
	811.0	122116.6	5148.4	-3.288	87.213	-34.690	.207	24.511	4.979	160.972
	812.0	121823.3	5127.6	-3.274	86.990	-35.271	•170	24.427	4.961	161.763
	813.0	121532.4	5106.8	-3.262	86.763	-35.893	• 096	24.325	4.943	162.534
	814.0	121243.7	5086.0	-3.253	86.533	-36.383	.091	24.199	4.925	163.296
	815.0	120956.9	5065.3	-3.248	86.298	-36.784	.061	24.079	4.907	164.050
	816.0	120671.8	5044.7	-3.243	86.062	-37.135	•047	23.948	4.889	164.796
	817.0	120388.2	5024.1	-3.240	85.823	-37.487	• 065	23.844	4.871	165.531
	818.0	120106.1	5003.5	-3.238	85.581	-38.103	.052	23.746	4.852	166.257
	819.0	119825.1	4983.0	-3.241	85.335	-38.320	.025	23.665	4.834	166.979
1	820.0	119545.2	4962.7	-3.243	85.098	-38.465	.121	23.593	4.817	167.704
1	821.0	119266.1	4942.4	-3.248	84.851	-38.751	.160	23.476	4.799	168.421
1	822.0	118987.7	4922.1	-3.255	84.601	-39.041	•165	23.397	4.781	169.134
1	823.0	118710.0	4901.7	-3.262	84.347	-39.265	•171	23.347	4.763	169.838
1	824.0	118432.9	4881.2	-3.269	84.088	-39.539	.159	23.298	4.745	170.526
i	825.0	118156.5	4860.6	-3.276	83.826	-39.833	.158	23.238	4.727	171.204
	826.0	117880.6	4840.1	-3.284	83.561	-40.124	.177	23.160	4.709	171.878
	827.0	117605.2	4819.5	-3.294	83.292	-40.487	.181	23.075	4.690	172.549
	828.0	117330.2	4799.0	-3.306	83.018	-40.932	•146	22.983	4.672	173.212
	829.0	117055.3	4778.3	-3.318	82.738	-41.109	.094	22.885	4.654	173.863
			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A A ST INVESTMENT OF THE PARTY						

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	1830.0	116780.8	4757.6	-3.329	82.455	-41.236	•066	22.790	4.636	174.507
	1831.0	116506.7	4736.9	-3.341	82.170	-41.477	.052	22.698	4.617	175.145
	1832.0	116232.7	4715.5	-3.356	81.895	-41.745	.027	22.595	4.598	175.729
	1833.0	115958.7	4695.1	-3.375	81.608	-41.845	.035	22.488	4.580	176.389
	1834.0	115684.2	4674.9	-3.395	81.321	-41.723	.065	22.392	4.562	177.060
	1835.0	115409.3	4654.9	-3.417	81.036	-41.352	.157	22.300	4.544	177.748
	1836.0	115134.0	4635.0	-3.437	80.751	-41.275	•197	22.227	4.527	178.447
	1837.0	114858.3	4615.1	-3.457	80.461	-41.404	.176	22.157	4.509	179.148
	1838.0	114582.3	4595.2	-3.476	80.167	-41.468	.176	22.084	4.492	179.846
	1839.0	114306.1	4575.2	-3.495	79.870	-41.682	.131	22.013	4.474	180.543
	1840.0	114029.6	4555.3	-3.514	79.566	-41.977	.080	21.937	4.456	181.243
	1841.0	113752.8	4535.4	-3.535	79.258	-42.300	.039	21.874	4.439	181.947
	1842.0	113475.6	4515.6	-3.558	78.947	-42.537	•010	21.829	4.421	182.659
<u></u>	1843.0	113197.8	4495.9	-3.582	78.633	-42.654	004	21.787	4.404	183.378
146	1844.0	112919.3	4476.1	-3.607	78.327	-42.557	.019	21.738	4.386	184.097
ĭ	1845.0	112640.3	4456.6	-3.631	78.012	-42.223	• 048	21.672	4.369	184.838
	1846.0	112360.8	4437.1	-3.654	77.696	-42.115	003	21.590	4.351	185.590
	1847.0	112080.7	4417.8	-3.677	77.378	-41.715	• 030	21.527	4.334	186.355
	1848.0	111800.4	4398.5	-3.696	77.061	-40.966	.282	21.453	4.317	187.124
	1849.0	111520.1	4379.2	-3.709	76.744	-39.476	1.004	21.373	4.300	187.889
	1850.0	111240.0	4360.0	-3.726	76.420	-41.364	•350	21.364	4.283	188.653
	1851.0	110959.8	4340.7	-3.746	76.088	-41.456	.249	21.306	4.266	189.420
	1852.0	110679.6	4321.6	-3.761	75.758	-41.542	•221	21.232	4.249	190.189
, ,	1853.0	110399.4	4302.5	-3.782	75.420	-43.185	•088	21.145	4.232	190.967
	1854.0	110118.5	4283.6	-3.817	75.064	-44.594	016	21.046	4.215	191.758
	1855.0	109835.9	4264.8	-3.857	74.700	-45.117	051	20.925	4.198	192.577
	1856.0	109551.6	4248.0	-3.899	74.325	-45.568	088	20.797	4.184	193.590
	1857.0	109265.3	4229.3	-3.946	73.953	-45.724	103	20.724	4.167	194.455
	1858.0	108976.8	4210.7	-3.994	73.579	-45.209	106	20.679	4.150	195.336
	1859.0	108686.4	4192.0	-4.033	73.211	-44.017	•006	20.602	4.134	196.231

************************* STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA. PAGE 63 *********************

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TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	HACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
1860.0	108394.8	4173.3	-4.068	72.847	-42.983	.128	20.519	4.117	197.136
1861.0	108102.2	4154.6	-4.097	72.485	-42.377	•139	20.449	4.101	198.044
1862.0	107809.0	4135.7	-4.122	72.121	-41.862	.120	20.373	4.084	198.945
1863.0	107515.6	4116.8	-4.143	71.758	-41.141	.126	20.300	4.067	199.842
1864.0	107222.3	4097.9	-4.160	71.401	-40.374	.186	20.230	4.050	200.736
1865.0	106929.3	4079.1	-4.174	71.048	-39.801	.269	20.137	4.033	201.630
1866.0	106636.8	4060.2	-4.187	70.692	-39.447	.257	20.019	4.016	202.512
1867.0	106344.8	4041.1	-4.198	70.302	-39.042	•208	19.884	3.999	203.370
1868.0	106053.7	4022.1	-4.205	69.944	-38.733	.167	19.764	3.982	204.228
1869.0	105763.6	4003.1	-4.209	69.584	-38.692	•111	19.651	3.965	205.061
1870.0	105474.7	3983.9	-4.213	69.218	-39.074	058	19.543	3.948	205.875
1871.0	105186.9	3964.8	-4.217	68.851	-38.986	108	19.424	3.931	206.670
1872.0	104900.3	3945.7	-4.223	68.485	-38.991	160	19.302	3.914	207.453
<u> </u>	104614.7	3926.6	-4.230	68.125	-38.634	146	19.184	3.897	208.234
£ 1874.0	104330.0	3907.8	-4.237	67.773	-37.933	004	19.081	3.880	209.018
1875.0	104046.3	3889.0	-4.246	67.426	-37.533	.086	18.970	3.863	209.798
1876.0	103763.5	3870.2	-4.251	67.081	-37.381	•067	18.878	3.846	210.559
1877.0	103481.7	3851.3	-4.257	66.733	-37.641	•027	18.814	3.829	211.299
1878.0	103201.0	3832.3	-4.264	66.377	-37.824	004	18.757	3.811	212.008
1879.0	102921.4	3813.0	-4.268	66.003	-37.869	051	18.676	3.794	212.668
1880.0	102643.0	3793.8	-4.271	65.639	-38.239	136	18.565	3.776	213.322
1881.0	102365.7	3774.6	-4.278	65.271	-38.533	236	18.434	3.759	213.955
1882.0	102089.5	3755.5	-4.286	64.906	-38.357	279	18.308	3.741	214.577
1883.0	101814.2	3736.3	-4.294	64.545	-37.804	216	18.190	3.724	215.188
1884.0	101539.8	3717.3	-4.302	64.193	-37.375	174	18.077	3.707	215.792
1885.0	101266.3	3698.5	-4.313	63.850	-37.056	124	17.969	3.689	216.407
1886.0	100993.4	3679.8	-4.328	63.513	-36.603	•002	17.877	3.672	217.021
1887.0	100721.0	3661.2	-4.342	63.180	-36.386	.067	17.793	3.655	217.626
1888.0	100449.2	3642.4	-4.354	62.843	-36.412	•045	17.724	3.638	218.206
1889.0	100178.2	3623.5	-4.365	62.503	-36.624	.003	17.672	3.621	218.754

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TIME	ALTDE	VELA	GANA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
1890.0	99907.9	3604.5	-4.375	62.158	-36.866	019	17.629	3.603	219.267
1891.0	99638.6	3584.5	-4.386	61.827	-37.000	•007	17.583	3.585	219.645
1892.0	99370.0	3565.4	-4.398	61.481	-36.955	•020	17.523	3.567	220.116
1893.0	99102.2	3546.4	-4.411	61.137	-36.673	.034	17.444	3.550	220.585
1894.0	98834.9	3527.6	-4.427	60.793	-36.308	.015	17.325	3.532	221.049
1895.0	98568.3	3505.0	-4.442	60.544	-34.239	196	17.296	3.511	221.032
1896.0	98303.2	3486.3	-4.425	60.240	-29.776	043	17.296	3.494	221.472
1897.0	98041.6	3467.5	-4.381	59.972	-25.510	106	17.244	3.476	221.852
1898.0	97784.7	3448.7	-4.315	59.753	-20.292	017	17.185	3.459	222.172
1899.0	97533.7	3430.0	-4.230	59.586	-15.061	.030	17.103	3.441	222.431
1900.0	97289.7	3411.6	-4.132	59.481	-9.936	• 053	17.016	3.424	222.646
1901.0	97053.0	3393.0	-4.027	59.422	-4.745	•072	16.917	3.407	222.742
1902.0	96823.9	3374.3	-3.919	59.416	•340	•063	16.826	3.389	222.742
1903.0	96602.4	3355.7	-3.813	59.460	5.104	010	16.754	3.372	222.650
1904.0	96388.0	3336.2	-3.717	59.573	9.579	104	16.703	3.353	222.354
1905.0	96180.2	3317.2	-3.629	59.699	14.153	201	16.676	3.335	222.044
1906.0	95978.2	3298.7	-3.554	59.887	18.999	257	16.644	3.318	221.717
1907.0	95781.1	3280.2	-3.499	60.129	24.067	280	16.596	3.300	221.338
1908.0	95587.4	3262.0	-3.471	60.421	29.289	297	16.535	3.283	220.935
1909.0	95395.5	3243.9	-3.477	60.767	34.289	150	16.464	3.265	220.534
1910.0	95203.2	3226.4	-3.513	61.146	37.505	064	16.366	3.249	220.186
1911.0	95009.4	3208.8	-3.567	61.545	39.153	167	16.313	3.232	219.842
1912.0	94813.3	3191.2	-3.633	61.964	40.709	201	16.303	3.215	219.517
1913.0	94614.2	3173.7	-3.709	62.403	42.299	048	16.287	3.199	219.215
1914.0	94411.7	3156.3	-3.791	62.856	43.072	.005	16.283	3.182	218.944
1915.0	94205.7	3139.0	-3.876	63.318	43.538	.026	16.288	3.166	218.725
1916.0	93996.0	3121.6	-3.965	63.788	43.875	•080	16.278	3.149	218.520
1917.0	93782.6	3104.3	-4.053	64.268	44.054	•132	16.259	3.133	218.343
1918.0	93565.6	3086.9	-4.142	64.753	44.089	.167	16.249	3.116	218.193
1919.0	93344.9	3069.6	-4.230	65.236	43.773	.137	16.258	3.100	218.083

-148

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA (-)	QA (PSF)
	1920.0	93120.8	3053.9	-4.313	65.718	43.268	031	16.269	3.085	218.209
	1921.0	92893.4	3036.1	-4.395	66.212	43.653	003	16.313	3.068	218.081
	1922.0	92663.1	3018.1	-4.477	66.722	44.210	.082	16.312	3.051	217.929
	1923.0	92429.5	3000.0	-4.564	67.239	44.390	.136	16.266	3.034	217.773
	1924.0	92192.8	2981.1	-4.653	67.762	44.157	.129	16.222	3.016	217.527
	1925.0	91952.9	2962.8	-4.741	68.273	43.576	010	16.203	2.998	217.397
	1926.0	91710.0	2944.6	-4.824	68.785	43.362	061	16.190	2.981	217.286
	1927.0	91464.3	2926.3	-4.906	69.305	43.551	•002	16.147	2.963	217.184
	1928.0	91215.9	2907.9	-4.990	69.828	43.603	.031	16.088	2.946	217.074
	1929.0	90964.7	2889.9	-5.075	70.354	43.478	•053	16.022	2.929	217.040
	1930.0	90710.8	2872.1	-5.157	70.879	43.232	• 061	15.928	2.912	217.053
	1931.0	90454.2	2854.5	-5.239	71.409	43.100	• 090	15.849	2.895	217.102
	1932.0	90195.2	2837.1	-5.320	71.942	43.097	•135	15.789	2.878	217.197
1 · · · · · · · · · · · · · · · · · · ·	1933.0	89933.7	2819.4	-5.403	72.454	43.124	.179	15.746	2.862	217.259
149	1934.0	89669.6	2802.5	-5.486	72.983	42.841	.173	15.689	2.846	217.458
1	1935.0	89403.0	2785.8	-5.566	73.509	42.395	.149	15.642	2.830	217.706
	1936.0	89134.1	2769.6	-5.644	74.026	41.870	.092	15.607	2.814	218.032
	1937.0	88863.1	2753.3	-5.718	74.544	41.443	•032	15.579	2.799	218.352
	1938.0	88590.2	2737.0	-5.789	75.061	41.231	011	15.556	2.784	218.697
	1939.0	88315.4	2721.3	-5.858	75.581	41.089	062	15.530	2.769	219.123
	1940.0	88038.9	2705.1	-5.927	76.103	41.152	075	15.482	2.753	219.489
,.,	1941.0	87760.8	2688.7	-5.997	76.636	41.515	034	15.431	2.738	219.830
	1942.0	87481.0	2672.2	-6.068	77.178	41.833	.134	15.354	2.722	220.150
	1943.0	87199.5	2655.6	-6.138	77.714	41.559	.141	15.282	2.706	220.451
	1944.0	86916.6	2638.9	-6.206	78.260	41.308	.178	15.184	2.690	220.745
	1945.0	86632.3	2622.0	-6.275	78.817	41.225	.242	15.071	2.674	220.995
	1946.0	86346.5	2605.3	-6.348	79.358	40.895	.248	14.987	2.658	221.294
	1947.0	86059.2	2588.6	-6.420	79.886	40.213	.167	14.937	2.642	221.590
	1948.0	85770.5	2572.1	-6.490	80.424	39.722	•125	14.907	2.626	221.905
	1949.0	85480.5	2555 • 4	-6.555	80.969	39.449	•095	14.885	2.611	222.205

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA.

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1950.0	85189.6	2538.0	-6.619	81.540	39.499	• 097	14.847	2.594	222.362
	1951.0	84897.7	2521.7	-6.681	82.113	39.716	•186	14.809	2.578	222.697
	1952.0	84605.1	2505.7	-6.735	82.690	39.523	.337	14.778	2.563	223.101
	1953.0	84312.1	2490.9	-6.780	83.265	38.198	.388	14.768	2.549	223.690
.,	1954.0	84019.2	2475.6	-6.805	83.805	35.936	.197	14.806	2.534	224.186
	1955.0	83727.2	2460.4	-6.816	84.328	33.355	• 253	14.812	2.520	224.654
	1956.0	83437.4	2445.3	-6.787	84.795	28.903	•177	14.803	2.505	225.127
	1957.0	83151.3	2429.9	-6.720	85.209	24.120	•046	14.704	2.490	225.473
	1958.0	82870.3	2414.1	-6.630	85.568	20.303	.291	14.524	2.475	225.687
	1959.0	82595.2	2398.4	-6.526	85.861	15.654	•425	14.417	2.460	225.827
	1960.0	82326.5	2382.5	-6.403	86.075	10.246	•376	14.432	2.444	225.831
	1961.0	82065.1	2366.1	-6.259	86.215	5.154	.334	14.476	2.428	225.656
	1962.0	81811.7	2349.5	-6.102	86.278	.715	• 395	14.526	2.412	225.320
L	1963.0	81566.6	2332.7	-5.940	86.263	-3.898	•306	14.538	2.396	224.826
-5	1964.0	81329.8	2315.6	-5.783	86.183	-7.049	•130	14.493	2.379	224.181
· ·	1965.0	81100.8	2298.3	-5.631	86.071	-8.113	.285	14.445	2.362	223.376
	1966.0	80879.7	2281.0	-5.481	85.932	-9.468	.307	14.397	2.345	222.459
	1967.0	80666.1	2263.6	-5.335	85.770	-10.748	•127	14.346	2.328	221.426
	1968.0	80459.7	2246.3	-5.198	85.594	-11.109	•090	14.279	2.310	220.297
	1969.0	80260.1	2228.9	-5.066	85.402	-11.853	326	14.284	2.293	219.071
	1970.0	80067.2	2211.9	-4.929	85.232	-10.687	235	14.310	2.276	217.837
	1971.0	79881.1	2194.4	-4.791	85.073	-9.859	•079	14.303	2.259	216.398
	1972.0	79701.7	2176.9	-4.659	84.915	-10.163	•070	14.221	2.241	214.872
	1973.0	79528.5	2159.5	-4.539	84.766	-9.130	•361	14.034	2.224	213.297
	1974.0	79360.9	2142.5	-4.436	84.619	-9.319	.181	13.835	2.207	211.704
	1975.0	79198.2	2125.2	-4.348	84.477	-10.374	308	13.674	2.189	210.010
	1976.0	79039.9	2108.4	-4.264	84.320	-10.599	275	13.524	2.173	208.348
	1977.0	78885.8	2091.8	-4.194	84.132	-12.427	481	13.346	2.156	206.653
	1978.0	78735.1	2075.3	-4.142	83.931	-13.534	733	13.216	2.139	204.953
	1979.0	78587.3	2059.0	-4.099	83.729	-13.169	656	13.175	2.123	203.237

********************************* 67 STSBBET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NX0482 DYN. DATA. PAGE * ***************

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	1980.0	78442.1	2042.8	-4.058	83.533	-12.803	589	13.268	2.106	201.502
	1981.0	78299.9	2026.8	-4.014	83.350	-12.359	523	12.657	2.090	199.771
	1982.0	78158.5	2011.7	-4.063	83.189	-11.782	436	12.195	2.075	198.217
	1983.0	78016.5	1996.8	-4.109	83.034	-11.132	323	12.297	2.060	196.674
	1984.0	77874.1	1981.8	-4.146	82.885	-10.630	215	12.379	2.045	195.115
	1985.0	77731.5	1966.8	-4.185	82.742	-9.811	193	12.361	2.030	193.562
	1986.0	77588.5	1952.0	-4.230	82.622	-8.437	010	12.234	2.015	192.024
******	1987.0	77444.9	1937.5	-4.290	82.513	-7.528	•105	12.015	2.000	190.540
	1988.0	77300.1	1923.2	-4.371	82.403	-7.318	•083	11.778	1.986	189.098
taren a transfere	1989.0	77153.2	1909.2	-4.472	82.290	-7.506	079	11.551	1.972	187.748
	1990.0	77003.8	1895.7	-4.592	82.178	-7.531	297	11.365	1.958	186.478
	1991.0	76851.2	1882.4	-4.724	82.073	-6.983	442	11.202	1.945	185.281
	1992.0	76695.3	1869.4	-4.868	81.977	-5.961	523	11.076	1.932	184.161
·····	1993.0	76535.5	1856.6	-5.023	81.908	-4.434	411	10.960	1.919	183.121
5	1994.0	76371.7	1844.1	-5.190	81.850	-3.522	305	10.816	1.906	182.153
i i	1995.0	76203.4	1832.1	-5.367	81.797	-3.297	312	10.656	1.894	181.299
	1996.0	76030.5	1820.0	-5.559	81.748	-3.024	324	10.500	1.882	180.472
	1997.0	75852.4	1808.0	-5.761	81.701	-2.441	263	10.396	1.870	179.709
	1998.0	75669.1	1796.2	-5.969	81.659	-1.878	186	10.312	1.858	179.011
	1999.0	75480.4	1784.6	-6.184	81.626	-1.363	087	10.240	1.847	178.373
	2000.0	75286.3	1773.4	-6.401	81.581	797	.049	10.182	1.836	177.870
or e	2001.0	75086.6	1761.9	-6.624	81.554	574	.175	10.115	1.824	177.346
	2002.0	74881.4	1750.5	-6.852	81.526	649	.272	10.049	1.813	176.866
	2003.0	74670.5	1739.1	-7.086	81.493	954	•325	10.025	1.801	176.419
	2004.0	74454.0	1727.6	-7.320	81.452	-1.374	•336	10.008	1.790	176.006
	2005.0	74231.8	1715.8	-7.559	81.382	-1.810	•296	9.963	1.778	175.561
	2006.0	74004.1	1704.4	-7.800	81.324	-2.418	.217	9.905	1.767	175.230
rendera wellowers (, e -	2007.0	73770.8	1693.1	-8.044	81.260	-3.145	.103	9.852	1.755	174.943
	2008.0	73531.9	1681.8	-8.290	81.188	-4.055	183	9.796	1.744	174.708
	2009.0	73287.4	1669.8	-8.540	81.126	-4.448	405	9.794	1.732	174.352

									• •	
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
		70007 /	1/50 0						*****	After the control flament and final control of
	2010.0	73037.6	1658.8	-8.778	81.080	-3.863	315	9.817	1.721	174.242
	2011.0	72782.7	1648.2	-9.007	81.045	-3.476	143	9.822	1.711	174.244
	2012.0	72523.1	1638.1	-9.230	81.014	-3.872	142	9.804	1.701	174.361
	2013.0	72258.9	1629.5	-9.438	81.014	-4.774	249	9.765	1.692	174.858
	2014.0	71990.3	1618.6	-9.656	80.781	-4.395	436	9.718	1.681	174.856
	2015.0	71717.5	1609.0	-9.864	80.776	-3.753	395	9.683	1.672	175.194
	2016.0	71440.6	1599.1	-10.071	80.784	-3.840	490	9.665	1.662	175.473
	2017.0	71159.9	1588.6	-10.274	80.790	-2.783	245	9.709	1.652	175.629
	2018.0	70875.6	1577.6	-10.469	80.810	101	.218	9.734	1.641	175.708
	2019.0	70588.2	1566.2	-10.661	80.827	674	.025	9.705	1.629	175.689
	2020.0	70297.6	1553.3	-10.873	80.816	659	173	9.720	1.616	175.358
	2021.0	70003.9	1541.3	-11.065	80.845	.069	046	9.970	1.604	175.225
	2022.0	69707.9	1529.1	-11.217	80.886	•555	•111	10.227	1.592	175.056
<u> </u>	2023.0	69410.8	1516.9	-11.332	80.934	•480	.148	10.225	1.580	174.868
.52	2024.0	69113.1	1504.7	-11.461	80.965	119	.081	10.006	1.567	174.677
. 1	2025.0	68814.2	1493.6	-11.602	80.985	-1.909	240	9.832	1.556	174.701
	2026.0	68513.8	1482.9	-11.747	80.983	-4.001	727	9.731	1.545	174.835
	2027.0	68211.9	1472.6	-11.887	81.021	-4.145	949	9.708	1.535	175.066
	2028.0	67908.7	1462.7	-12.017	81.047	-2.164	710	9.731	1.525	175.364
	2029.0	67604.4	1453.1	-12.138	81.093	468	381	9.683	1.516	175.744
	2030.0	67299.1	1444.5	-12.253	81.149	•724	119	9.570	1.507	176.364
Marchael Lands Co., No. 10	2031.0	66992.7	1435.7	-12.373	81.221	1.759	.225	9.470	1.498	A Mark the Miles of the Control of t
	2032.0	66685.2	1427.1	-12.492	81.283	1.506	•380	9.354	the first contract of the second of the seco	176.949
	2033.0	66376.6	1418.6	-12.615	81.321	.851	•384	The second control of	1.490	177.565
• · · • • •	2034.0	66066.9	1410.2	-12.741	81.328		The state of the s	9.246	1.481	178.197
	2035.0	65756.0	1401.7		· · · · · · · · · · · · · · · · · · ·	.461	• 353	9.139	1.473	178.863
	2036.0			-12.870 -12.004	81.359	.627	•418	9.050	1.464	179.502
* * * * * * * * * * * * * * * * * * * *	All and the territory and the state of the attention as the	65443.9	1393.2	-12.996	81.397	•774	. 509	8.939	1.456	180.144
	2037.0	65130.7	1384.8	-13.125	81.465	.839	•617	8.832	1.447	180.801
	2038.0	64816.3	1376.2	-13.255	81.487	•727	•659	8.736	1.439	181.407
	2039.0	64500.9	1367.4	-13.391	81.479	043	• 556	8.632	1.430	181.964

TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
2040.0	64184.3	1358.5	-13.526	81.447	412	• 442	8.573	1.421	182.478
2041.0	63866.7	1349.3	-13.668	81.396	420	•353	8.469	1.411	182.918
2042.0	63547.9	1339.9	-13.812	81.336	143	.301	8.408	1.402	183.296
2043.0	63228.2	1330.0	-13.954	81.199	•347	.255	8.381	1.392	183.520
2044.0	62907.8	1320.4	-14.087	81.135	071	.149	8.351	1.382	183.824
2045.0	62586.8	1310.9	-14.215	81.098	844	069	8.306	1.372	184.132
2046.0	62265.3	1301.4	-14.340	81.169	310	•071	8.280	1.363	184.437
2047.0	61943.4	1292.2	-14.454	81.209	•570	•334	8.235	1.353	184.801
2048.0	61621.4	1283.2	-14.567	81.218	494	.260	8.159	1.344	185.200
2049.0	61299.1	1273.7	-14.689	81.246	-2.143	014	8.149	1.334	185.440
2050.0	60976.8	1264.9	-14.789	81.166	-2.124	249	8.151	1.325	185.887
2051.0	60654.6	1256.7	-14.876	81.064	334	172	8.105	1.317	186.470
2052.0	60332.8	1249.1	-14.950	80.943	1.354	055	8.011	1.309	187.222
∟ 2053.0	60011.4	1243.4	-14.997	80.706	2.863	006	7.852	1.303	188.517
∑ 2054.0	59690.4	1235.0	-15.081	80.686	3.547	.216	7.717	1.295	189.015
2055.0	59369.8	1225.9	-15.176	80.709	3.478	•407	7.658	1.285	189.233
2056.0	59049.8	1215.9	-15.273	80.784	2.128	• 423	7.625	1.275	189.166
2057.0	58730.4	1205.2	-15.375	80.796	1.349	•379	7.614	1.264	188.858
2058.0	58411.8	1193.7	-15.481	80.791	.714	•316	7.574	1.252	188.266
2059.0	58094.1	1180.6	-15.620	80.749	282	•089	7.574	1.239	187.102
2060.0	57777.2	1169.0	-15.734	80.746	242	•017	7.591	1.227	186.364
2061.0	57461.2	1157.6	-15.839	80.746	762	092	7.562	1.215	185.670
2062•0	57146.2	1146.4	-15.947	80.807	-1.151	232	7.526	1.203	184.965
2063.0	56832•4	1135.9	-16.029	80.871	•545	028	7.555	1.192	184.455
2064.0	56520.0	1125.8	-16.108	80.965	1.524	.231	7.453	1.182	184.042
2065.0	56208.7	1117.6	-16.159	81.086	1.296	•365	7.375	1.173	184.216
2066.0	55898.9	1107.8	-16.234	81.147	1.022	•410	7.340	1.163	183.804
2067•0	55590.3	1097.4	-16.321	81.164	•604	• 395	7.353	1.152	183.183
2068•0	55283.1	1086.4	-16.408	81.038	106	•175	7.375	1.141	182.281
2069.0	54977.5	1075.2	-16.491	80.944	-1.366	175	7.343	1.129	181.294

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QÁ
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	2070.0	54673.6	1061.9	-16.616	80.958	-1.455	342	7.360	1.115	179.510
• · · ·	2071.0	54371.1	1052.6	-16.683	80.605	•308	595	7.367	1.105	179.070
	2072.0	54070.2	1036.4	-16.858	80.691	1.402	315	7.513	1.088	176.185
	2073.0	53771.0	1026.3	-16.920	80.891	.735	104	7.567	1.078	175.382
	2074.0	53473.8	1022.3	-16.874	80.968	015	130	7.448	1.074	176.592
	2075.0	53178.3	1017.8	-16.858	80.839	.161	314	7.248	1.069	177.622
	2076.0	52884.1	1012.6	-16.887	81.068	•537	098	7.115	1.064	178.400
	2077.0	52590.8	1008.0	-16.920	80.955	.579	230	6.986	1.059	179.361
	2078.0	52298.1	1003.6	-16.978	81.226	039	066	6.808	1.054	180.383
	2079.0	52005.4	996.6	-17.109	81.236	230	085	6.710	1.047	180.461
	2080.0	51712.6	986.6	-17.301	81.493	-1.041	.062	6.746	1.036	179.437
	2081.0	51419.6	979.3	-17.435	81.004	021	349	6.754	1.029	179.392
	2082.0	51126.6	978.0	-17.455	81.065	•750	104	6.647	1.027	181.497
1:	2083.0	50833.7	973.8	-17.534	81.302	221	.160	6.549	1.023	182.579
54	2084.0	50540.6	964.9	-17.704	81.185	607	.082	6.643	1.013	181.863
i	2085.0	50247.7	954.2	-17.892	81.288	884	•209	6.743	1.002	180.432
	2086.0	49955.1	947.0	-18.015	81.152	-1.245	.017	6.764	. 994	180.263
	2087.0	49662.9	937.1	-18.185	81.196	-1.017	•056	6.834	• 984	179.092
	2088.0	49371.0	932.2	-18.253	80.840	-1.044	298	6.792	.979	179.777
	2089.0	49079.6	918.5	-18.527	80.947	724	130	6.850	• 96 4	177.054
	2090.0	48787.8	915.1	-18.640	80.856	-1.233	202	6.671	•961	178.270
	2091.0	48495.0	904.3	-18.972	80.658	-1.354	473	6.704	.949	176.586
	2092.0	48200.7	899.3	-19.170	80.976	677	096	6.827	. 944	177.170
	2093.0	47905.3	900.6	-19.215	80.946	908	080	6.792	.945	180.272
	2094.0	47608.7	903.6	-19.219	80.800	-1.390	174	6.707	.948	184.100
	2095.0	47311.3	903.0	-19.267	80.906	-1.932	.028	6.892	.948	186.544
	2096.0	47014.2	896.1	-19.354	81.064	-2.773	• 359	7.114	.940	186.406
	2097.0	46717.8	891.9	-19.425	80.930	-3.952	.297	7.055	•936	187.340
	2098.0	46422.0	890.4	-19.400	81.034	-3.496	•354	7.153	. 934	189.386
	2099.0	46127.4	887.4	-19.349	80.887	-1.186	.272	7.406	.931	190.828

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	MACHA	QA (PSF)
	2100.0	45835.4	887.2	-19.125	80.598	•684	•049	7.558	•931	193.465
	2101.0	45547.1	888.0	-18.831	80.760	1.165	•155	7.471	.931	196.553
	2102.0	45262.8	884.0	-18.668	80.614	•984	060	7.223	.927	197.483
	2103.0	44981.5	879.2	-18.607	80.496	.994	154	7.127	• 922	198.030
	2104.0	44702.6	878.3	-18.443	80.830	•647	•238	7.021	•921	200.275
	2105.0	44426.5	875.5	-18.324	80.956	146	.348	6.848	.918	201.656
	2106.0	44152.7	878.1	-18.140	80.826	•141	•203	6.351	• 920	205.552
	2107.0	43880.0	880.5	-18.085	80.689	.043	.059	5.732	•923	209.433
	2108.0	43606.2	878.0	-18.241	80.652	-1.476	122	5.709	•920	210.996
	2109.0	43331.4	874.3	-18.371	80.821	-2.097	094	5.803	•916	211.980
	2110.0	43056.0	872.6	-18.427	80.807	-1.722	234	5.817	.914	213.996
	2111.0	42780.6	871.8	-18.427	80.899	-1.043	181	5.842	•913	216.446
	2112.0	42505.8	870.4	-18.406	81.074	615	002	5.798	.911	218.570
ᆣ	2113.0	42231.7	868.0	-18.416	81.070	439	009	5.702	• 909	220.236
155	2114.0	41958.1	871.4	-18.308	80.950	853	159	5.549	•912	224.900
ĭ	2115.0	41685.0	872.5	-18.253	80.484	836	575	5.420	•913	228.431
	2116.0	41412.3	872.2	-18.230	80.599	439	262	5.306	•912	231.218
	2117.0	41140.0	868.9	-18.292	80.480	917	064	5.203	•909	232.494
	2118.0	40867.4	864.4	-18.428	80.460	-1.884	.121	5.195	.904	233.085
	2119.0	40594.2	860.3	-18.553	80.346	-2.097	.024	5.226	• 899	233.870
	2120.0	40320.8	854.5	-18.692	80.282	-1.493	073	5.291	. 893	233.764
	2121.0	40047.3	848.8	-18.818	80.213	-1.343	131	5.350	.887	233.614
	2122.0	39774.1	841.5	-18.959	80.339	-1.348	•028	5.378	.879	232.627
	2123.0	39501.2	839.3	-18.997	80.330	-1.238	• 053	5.243	.877	234.429
	2124.0	39228.4	837.6	-19.037	80.375	-1.344	.044	5.119	.874	235.960
	2125.0	38955.4	836.2	-19.098	80.261	-1.358	154	4.902	.870	237.140
	2126.0	38681.6	834.8	-19.210	80.109	-1.442	318	4.840	.867	238.353
	2127.0	38407.1	840.9	-19.100	79.969	-1.613	381	4.696	.871	243.922
	2128.0	38132.2	847.6	-18.950	79.796	-1.512	467	4.573	.876	249.970
	2129.0	37857.5	848.3	-18.909	79.754	-1.163	328	4.664	.874	252.548

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA.

nager week with a	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	OA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
										ere i mi i men eresem member proprieta i se se u para la un
	2130.0	37583.4	844.9	-18.905	80.043	-1.591	• 201	4.798	.869	252.648
	2131.0	37310.9	842.0	-18.867	80.309	-2.126	•679	4.801	.864	253.049
	2132.0	37039.5	836.5	-18.913	80.283	-2.518	.673	4.908	.857	251.926
	2133.0	36769.4	835.6	-18.827	80.312	-2.626	•632	4.897	.854	253.496
	2134.0	36501.0	833.2	-18.755	80.209	-2.631	• 451	4.856	.850	254.173
	2135.0	36234.3	829.2	-18.736	79.925	-2.233	.143	4.818	.844	253.806
	2136.0	35969.0	823.7	-18.761	79.765	-1.855	• 005	4.814	.837	252.585
	2137.0	35705.2	820.6	-18.743	79.501	-1.744	136	4.711	.832	252.761
	2138.0	35442.3	814.4	-18.835	79.526	-1.778	034	4.783	.824	251.002
	2139.0	35180.2	810.5	-18.851	79.446	-1.253	•037	4.788	.818	250.644
	2140.0	34919.0	806.0	-18.929	79.374	-1.070	•060	4.732	.812	249.930
	2141.0	34657.9	803.1	-18.988	79.408	924	•140	4.775	.808	250.145
	2142.0	34397.4	799.4	-19.023	79.423	-2.925	• 254	4.846	.803	249.860
- 15	2143.0	34137.6	797.7	-19.008	79.456	-7.843	. 474	4.836	.800	250.840
	2144.0	33878.3	793.4	-19.109	79.098	-13.500	•411	4.851	.794	250.202
	2145.0	33618.6	790•0	-19.245	78.525	-18.277	•317	5.020	.789	250.059
	2146.0	33358.6	784.7	-19.383	77.756	-22.110	• 222	5.311	.782	248.771
	2147.0	33098.7	780.1	-19.488	76.880	-25.778	.279	5.476	•777	247.900
	2148.0	32838.8	775 • 8	-19.629	75.897	-28.210	• 428	5.697	.771	247.188
	2149.0	32578.7	770.7	-19.745	74.420	-29.820	.200	5.894	.765	245.926
um mai in in la same	2150.0	32319.5	766.2	-19.792	72.963	-31.261	.077	5.943	• 759	245.063
	2151.0	32060.8	763.4	-19.850	71.616	-32.469	•137	6.067	•755	245.238
	2152.0	31802.6	758.9	-19.880	70.289	-33.313	•150	6.534	.749	244.368
	2153.0	31546.7	754.0	-19.803	68.788	-33.288	.049	6.580	.743	243.128
	2154.0	31293.0	748.8	-19.781	67.432	-33.160	.140	6.666	.737	241.713
	2155.0	31041.5	744.0	-19.756	66.046	-33.028	•236	6.686	.731	240.549
	2156.0	30791.5	740.6	-19.776	64.640	-32.982	•321	6.575	.727	240.220
	2157.0	30542.0	737.8	-19.809	63.058	-32.864	.235	6.615	•723	240.307
	2158.0	30293.5	735.1	-19.814	61.481	-34.250	•171	6.485	.719	240.415
	2159.0	30045.2	732.5	-19.957	59.847	-37.064	.183	6.544	•716	240.626

								The second secon		
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	AL PHAA	HACHA	AP
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	2160.0	29795.7	730.7	-20.056	57.977	-38.324	•171	6.939	•713	241.306
	2161.0	29546.7	727.3	-20.106	56.014	-38.694	•184	7.024	•709	240.950
	2162.0	29297.9	720.5	-20.286	53.850	-38.743	034	7.096	.701	238.356
	2163.0	29049.9	716.2	-20.306	51.724	-38.698	028	7.311	.696	237.370
	2164.0	28803.2	713.9	-20.301	49.479	-38.272	049	7.188	.693	237.652
	2165.0	28557.0	710.7	-20.376	47.173	-38.970	171	7.253	.689	237.351
	2166.0	28311.3	707.6	-20.398	44.934	-39.517	158	7.328	•685	237.138
	2167.0	28066.8	705.0	-20.400	42.578	-40.105	123	7.115	.682	237.233
	2168.0	27822.0	704.5	-20.524	40.231	-41,196	072	6.999	.680	238.698
	2169.0	27576.0	704.9	-20.598	38.097	-41.026	•166	7.203	.680	240.855
• • • • • • • • • • • • • • • • • • • •	2170.0	27329.5	704.2	-20.614	35.834	-40.343	•300	7.409	.678	242.279
	2171.0	27083.8	703.2	-20.529	33.554	-39.703	.424	7.461	.676	243.439
*** * * * * * * * * * * * * * * * * * *	2172.0	26839.4	701.2	-20.497	31.311	-39.056	•446	7.318	.674	243.956
	2173.0	26596.0	702.3	-20.390	28.794	-38.361	.186	6.949	.674	246.574
157	2174.0	26353.4	701.2	-20.357	26.592	-37.932	036	6.910	.672	247.682
7-	2175.0	26111.9	700.5	-20.236	24.577	-38.806	.027	7.358	.671	249.106
	2176.0	25872.9	697.3	-20.077	22.539	-38.877	.367	7.534	.667	248.670
	2177.0	25636.3	694.0	-20.005	20.599	-38.982	•632	7.628	•663	248.204
	2178.0	25401.7	690.2	-19.941	18.510	-38.941	•639	7.779	.658	247.281
	2179.0	25169.5	688.0	-19.752	16.318	-38.535	.521	7.769	.656	247.491
	2180.0	24940.5	685.2	-19.538	14.114	-39.432	.399	7.830	.652	247.304
	2181.0	24714.9	680.8	-19.369	11.578	-39.940	.231	7.703	.647	245.901
	2182.0	24492.2	675.9	-19.303	9.236	-40.047	.182	7.474	.642	244.062
	2183.0	24271.4	667.9	-19.408	6.887	-39.971	028	7.550	.634	239.950
	2184.0	24052.2	659.9	-19.479	4.647	-39.605	116	7.731	.626	235.895
	2185.0	23835.0	652.7	-19.522	2.342	-39.113	207	7.797	.618	232.298
	2185.0	23619.6	646.2	-19.587	015	-38.309	238	7.974	.612	229.268
•		23406.0	642.4	-19.445	-2.650	-36.310	317	8.060	.607	228.090
	2187.0	23195.5		-19.318	-4.971	-35.333	328	7.920	•603	226.893
			638.6		-7.275	-33.804	418	7.877	•598	224.749
	2189.0	22987.0	633.5	-19.304	-10613	-33.004		1.011	• 770	

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TIME	ALTDE	er garanaan	* a::						
(SEC)	ALTDE (FT)	VELA (FPS)	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
13667	<u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </u>	(FF3)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
2190.0	22780.4	631.3	-19.195	-9.433	-32.607	-,401	7.724	- 505	224.658
2191.0	22575.1	631.4	-19.116	A CONTRACTOR OF THE PARTY OF TH			a second of the common and the commo		226.174
2192.0	22370.5	630.7	-19.087	-13.388			14 1190 - 1200	and the second s	227.107
2193.0	22166.3	631.1	-19.040						228.894
2194.0	21962.1	631.6	-19.045	-16.953					230.757
2195.0	21757.7	633.3	-19.011						233.469
2196.0	21552.9	634.3	-19.017		and the second of the second o				235.665
2197.0	21348.1	636.6	-18.929	and the second s	• .				238.944
2198.0	21143.3	638.1	-18.911	-25.381	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	A CONTRACTOR OF THE CONTRACTOR			241.605
2199.0	20937.7	640.8	-18.858	-27.563					245.225
2200.0	20733.5	642.5	-18.569				the state of the s		248.123
2201.0	20531.9	645.2	-18.222	-32.143	the second comment of the second	the second of th		the second secon	251.752
2202.0	20333.3	646.9	-17.875	-34.610	The second secon		Annual Control of the	The second secon	254.686
2203.0	20138.5	647.6	-17.365	-37.141					256.747
2204.0	19950.3	647.3	-16.771	-39.804	-39.801	and the second s	the first of the first of the contract of the	and the second of the second o	258.017
2205.0	19767.5	644.6	-16.330	-42.454	-40.052				257.390
2206.0	19591.5	641.3	-15.674	-45.296	-39.351		The second secon	and the second second	256.157
2207.0	19423.5	637.4	-15.056	-48.012	-38.535		the second of th	er in the second of the second	254.324
2208.0	19262.3	632.7	-14.553	-50.561					251.913
2209.0	19108.6	628.0	-13.843	-53.158	-34.976	The state of the s		man a second	249.366
2210.0	18963.3	623.4	-13.304	-55.432	-32.201	THE PARK A PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PARK AND ADDRESS OF THE PARK AND ADDRESS O		the state of the contract of the state of th	246.790
And the second s	18822.6	620.1	-13.061	-57.242	-28.957		The second of the second and the second seco	THE CHARLES IN COMPANY AND A STATE OF THE ST	245.257
2212.0	18685.0	613.9	-12.975	-58.912	-25.577		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the contract of the contract o	241.424
and the second s		610.5	-12.741	-60.148	-21.245		the state of the s	at a second training and the second second	239.762
AND DESCRIPTION OF THE PARTY OF	18416.7	607.6	-12.779	-61.346	-18.067	to the transfer of the second	the state of the s	A	238.498
2215.0	18283.0	605.6	-12.836	-62.614	-16.069	The state of the s	to the contract of the contrac	· · · · · · · · · · · · · · · · ·	237.876
2216.0	18149.2	602.8	-12.940	-63.717	-12.793	and the second of the second o	A POST CONTRACTOR AND A MARKET CONTRACTOR AND A MARKET CONTRACTOR AND A CO	· comment of the comm	236.673
2217.0	18014.2	600.1	-13.139	-64.597	-8.085		and the second of the second o	• •	235.534
2218.0	17878.2	597.7	-13.219	-65.155	-10.532			the territory of the second section in the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the section of the second section is a second section of the second section of the sect	234.658
2219.0	17742.7	595.2	-13.200	-66.037	-18.469	and the second s	CONTRACTOR OF THE PARTY OF THE		233.644
	2190.0 2191.0 2192.0 2193.0 2194.0 2195.0 2196.0 2197.0 2198.0 2202.0 2203.0 2204.0 2205.0 2206.0 2207.0 2208.0 2211.0 2212.0 2213.0 2214.0 2215.0 2216.0 2217.0 2218.0	2190.0	2190.0 22780.4 631.3 2191.0 22575.1 631.4 2192.0 22370.5 630.7 2193.0 22166.3 631.1 2194.0 21962.1 631.6 2195.0 21757.7 633.3 2196.0 21552.9 634.3 2197.0 21348.1 636.6 2198.0 21143.3 638.1 2199.0 20937.7 640.8 2200.0 20733.5 642.5 2201.0 20531.9 645.2 2202.0 20333.3 646.9 2203.0 20138.5 647.6 2204.0 19950.3 647.3 2205.0 19767.5 644.6 2206.0 19591.5 641.3 2207.0 19423.5 637.4 2208.0 19262.3 632.7 2209.0 19108.6 628.0 2210.0 18963.3 623.4 2211.0 18685.0 613.9 2212.0 18685.0 613.9 2213.0 18550.3 610.5	2190.0 22780.4 631.3 -19.195 2191.0 22575.1 631.4 -19.116 2192.0 22370.5 630.7 -19.087 2193.0 22166.3 631.1 -19.040 2194.0 21962.1 631.6 -19.045 2195.0 21757.7 633.3 -19.011 2196.0 21552.9 634.3 -19.017 2197.0 21348.1 636.6 -18.929 2198.0 21143.3 638.1 -18.911 2199.0 20937.7 640.8 -18.858 2200.0 20733.5 642.5 -18.569 2201.0 20531.9 645.2 -18.22 2202.0 20333.3 646.9 -17.875 2203.0 20138.5 647.6 -17.365 2204.0 19950.3 647.6 -17.365 2204.0 19950.3 647.6 -16.771 2205.0 19767.5 644.6 -16.330 2206.0 19423.5 637.4 -15.056 2208.0 19262.3 632.7 -14.55	2190.0 22780.4 631.3 -19.195 -9.433 2191.0 22575.1 631.4 -19.116 -11.435 2192.0 22370.5 630.7 -19.087 -13.388 2193.0 22166.3 631.1 -19.040 -15.197 2194.0 21962.1 631.6 -19.045 -16.953 2195.0 21757.7 633.3 -19.011 -18.937 2196.0 21552.9 634.3 -19.017 -20.794 2197.0 21348.1 636.6 -18.929 -23.113 2198.0 21143.3 638.1 -18.911 -25.381 2199.0 20937.7 640.8 -18.929 -23.113 2200.0 20733.5 642.5 -18.569 -29.843 2201.0 20531.9 645.2 -18.222 -32.143 2202.0 20333.3 646.9 -17.875 -34.610 2203.0 20138.5 647.6 -17.365 -37.141 2204.0 19950.3 647.3 -16.771 -39.804 2205.0 19767.5 644.6<	2190.0	2190.0 22780.4 631.3 -19.195 -9.433 -32.607401 2191.0 22575.1 631.4 -19.116 -11.435 -31.315339 2192.0 22370.5 630.7 -19.087 -13.388 -30.253375 2193.0 22166.3 631.1 -19.040 -15.197 -30.002391 2194.0 21962.1 631.6 -19.045 -16.953 -30.930481 2195.0 21757.7 633.3 -19.011 -18.937 -33.369636 2196.0 21552.9 634.3 -19.017 -20.794 -34.583411 2197.0 21348.1 636.6 -18.929 -23.113 -35.439439 2198.0 21143.3 638.1 -18.911 -25.381 -36.206396 2199.0 20937.7 640.8 -18.858 -27.563 -36.072288 2200.0 20733.5 642.5 -18.569 -29.843 -35.766 -189 2201.0 20531.9 645.2 -18.222 -32.143 -37.759146 2202.0 20333.3 646.9 -17.875 -34.610 -39.285054 2203.0 20138.5 647.6 -17.365 -37.141 -39.631 .108 2204.0 19950.3 647.3 -16.771 -39.804 -39.801 .195 2205.0 19767.5 644.6 -16.330 -42.454 -40.052 .115 2206.0 19591.5 641.3 -15.674 -45.296 -39.351 .159 2207.0 19423.5 637.4 -15.056 -48.012 -38.535 .224 2208.0 19262.3 632.7 -14.553 -50.561 -38.206 .26 2209.0 19108.6 628.0 -13.843 -55.432 -32.201 .512 2211.0 18822.6 620.1 -13.061 -57.242 -28.957 .493 2212.0 18685.0 613.9 -12.975 -58.912 -25.577 .451 2213.0 18550.3 610.5 -12.779 -61.346 -18.067 .389 2215.0 18283.0 605.6 -12.836 -62.614 -16.069008 2216.0 1849.2 602.8 -12.940 -63.717 -12.793298 2218.0 17878.2 597.7 -13.219 -65.155 -10.532655	2190.0 22780.4 631.3 -19.195 -9.433 -32.607401 7.724 2191.0 22575.1 631.4 -19.116 -11.435 -31.315339 7.518 2192.0 22370.5 630.7 -19.087 -13.388 -30.253375 7.397 2193.0 22166.3 631.1 -19.040 -15.197 -30.002391 7.253 2194.0 21962.1 631.6 -19.045 -16.953 -30.930881 7.234 2195.0 21757.7 633.3 -19.011 -18.937 -33.369636 7.207 2196.0 21552.9 634.3 -19.017 -20.794 -34.583411 7.407 2197.0 21348.1 636.6 -18.929 -23.113 -33.439439 7.330 2198.0 21143.3 638.1 -18.911 -25.381 -36.206396 7.147 2199.0 20937.7 640.8 -18.858 -27.563 -36.072 -288 7.521 2200.0 20733.5 642.5 -18.569 -29.843 -35.766 -1.89 7.697 2201.0 20531.9 645.2 -18.222 -32.143 -37.759 -1.46 7.807 2202.0 20333.3 646.9 -17.875 -34.610 -39.285054 8.023 2203.0 20188.5 647.6 -17.365 -37.141 -39.631 .108 8.537 2204.0 19950.3 647.3 -16.771 -39.804 -39.801 .195 8.261 2205.0 19767.5 644.6 -16.330 -42.454 -40.052 .115 8.585 2206.0 19591.5 641.3 -15.674 -45.296 -39.351 .159 8.686 2207.0 19423.5 637.4 -15.056 -48.012 -38.535 .224 8.553 2208.0 19262.3 632.7 -14.553 -50.561 -38.206 .226 8.677 2209.0 19108.6 628.0 -13.843 -53.158 -34.976 .587 8.754 2210.0 18963.3 623.4 -13.304 -55.432 -32.201 .512 7.853 2211.0 18922.6 620.1 -13.061 -57.242 -28.957 .493 7.226 2213.0 18685.0 613.9 -12.741 -60.148 -21.245 .588 6.926 2214.0 18416.7 607.6 -12.875 -58.912 -25.577 .451 7.338 2213.0 18550.3 610.5 -12.741 -60.148 -21.245 .588 6.926 2214.0 18416.7 607.6 -12.875 -58.912 -25.577 .451 7.338 2213.0 18550.3 610.5 -12.741 -60.148 -21.245 .588 6.926 2214.0 18416.7 607.6 -12.879 -61.346 -18.067 .389 6.621 2215.0 18429.0 605.6 -12.875 -58.912 -25.577 .451 7.338 6.621 2215.0 18429.0 605.6 -12.875 -68.912 -25.577 .451 7.338 6.621 2215.0 18429.0 605.6 -12.875 -68.912 -25.577 .451 7.338 6.621 2215.0 18429.0 605.6 -12.836 -62.614 -16.069 -008 6.493 2216.0 1849.2 602.8 -12.940 -63.717 -12.793 -298 6.311 2217.0 18014.2 600.8 -12.836 -62.614 -16.069 -008 6.493	2190.0 22780.4 631.3 -19.195 -9.433 -32.607401 7.724 .595 2191.0 22575.1 631.4 -19.116 -11.435 -31.315339 7.518 .595 2192.0 22370.5 630.7 -19.087 -13.388 -30.253375 7.397 .594 2193.0 22166.3 631.1 -19.040 -15.197 -30.002391 7.253 .594 2194.0 21962.1 631.6 -19.045 -16.953 -30.930481 7.234 .594 2195.0 21757.7 633.3 -19.011 -18.937 -33.369636 7.207 .595 2196.0 21552.9 634.3 -19.017 -20.794 -34.583411 7.407 .595 2197.0 21348.1 636.6 -18.929 -23.113 -35.439439 7.330 .597 2198.0 21143.3 638.1 -18.911 -25.381 -36.206396 7.147 .598 2199.0 20937.7 640.8 -18.858 -27.563 -36.072288 7.521 .600 2200.0 20733.5 642.5 -18.569 -29.843 -35.766 -1189 7.697 .601 2201.0 20531.9 645.2 -18.262 -32.143 -37.759146 7.807 .603 2202.0 20333.3 646.9 -17.875 -34.610 -39.285054 8.023 .604 2203.0 20138.5 647.6 -17.365 -37.141 -39.631 .108 8.537 .604 2204.0 19950.3 647.3 -16.771 -39.804 -39.801 .195 8.261 .603 2205.0 19767.5 644.6 -16.330 -42.454 -40.052 .115 8.885 .600 2206.0 19591.5 641.3 -15.674 -45.296 -39.351 .159 8.885 .600 2206.0 19591.5 641.3 -15.674 -45.296 -39.351 .159 8.886 .597 2207.0 19423.5 637.4 -15.056 -48.012 -38.535 .224 8.553 .593 2208.0 19262.3 632.7 -14.553 -50.561 -38.206 .226 8.677 .588 2209.0 19108.6 626.0 -13.843 -53.158 -34.976 .8754 .583 2210.0 18963.3 623.4 -13.304 .55.432 -32.201 .512 7.853 .579 2212.0 18685.0 613.9 -12.975 -88.912 -25.577 .451 7.338 .569 2213.0 18963.3 610.5 -12.779 -61.346 -18.067 .389 6.621 .563 2215.0 18283.0 605.6 -12.779 -61.346 -18.067 .389 6.621 .563 2215.0 18283.0 605.6 -12.779 -61.346 -18.067 .389 6.621 .563 2215.0 18283.0 605.6 -12.779 -61.346 -18.067 .389 6.621 .563 2215.0 18283.0 605.6 -12.779 -61.346 -12.27928.957 .939 .298 6.311 .558 2216.0 1849.2 602.0 1-3.139 -64.555 -10.532 -0.555 6.371 .555 2218.0 17878.2 597.7 -13.219 -64.5155 -10.532 -0.555 6.710 .555

STSBBET USING LAIRJB (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA. PAGE 75

TIMÉ	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
2220.0	17607.7	595.7	-13.163	-67.145	-23.171	863	6.799	• 550	235.017
2221.0	17472.0	595.5	-13.325	-68.538	-28.018	712	6.633	•550	235.887
2222.0	17333.8	596.3	-13.657	-70.176	-32.823	583	6.478	•550	237.519
2223.0	17191.1	595.0	-14.167	-72.057	-36.121	466	6.524	.549	237.531
2224.0	17043.4	597.3	-14.693	-74.098	-38.106	450 450	6.131	•551	240.415
2225.0	16888.5	597.3	-15.408	-76.290	-43.479	761	6.634	•550	241.628
2226.0	16727.5	599.3	-15.899	-78.916	-45.927	 773	6.956	• 552	244.410
2227.0	16560.9			-81.643	-47.550	652	7.383	•554	248.394
2228.0	16389.8	602.6 606.4	-16.320 -16.599	-84.457	-48.802	394	7.844	•558	252.844
2229.0	16215.1	608.1	-16.858	-87.638	-49.774	332	7.914	• 559	255.634
2230.0	16037.2	608.5	-17.155	-90.720	-50.101	264	7.897	• 559	257.367
2231.0	15856.0	609.5	-17.448	-94.221	-49.974	420	7.463	• 559	259.653
							7.100	• 559	260.940
2232.0	15671.1	609.3	-17.862	-97.323	-49.545	467	and the same of th	Administration of the state of the second of	263.261
2233•0	15481.5	610.2	-18.313	-100.212	-48.925	377	7.099	• 559	
15 2234.0	15287.4	611.0	-18.664	-102.969	-48.569	195	7.359	• 560	265.541
φ 2235.0	15090.0	611.5	-18.925	-106.037	-48.788	201	7.381	•560	267.580
2236.0	14889.8	613.9	-19.119	-109.016	-48.037	147	7.042	• 562	271.373
2237.0	14686.3	612.5	-19.514	-111.996	-45.871	339	6.521	• 560	271.792
2238.0	14479.2	613.4	-19.822	-114.565	-41.136	189	6.291	• 560	274.337
2239.0	14269.4	611.2	-20.052	-117.060	-33.625	152	6.268	• 558	274.065
2240.0	14059.4	611.8	-19.909	-119.170	-27.701	235	6.225	•558	276.347
2241.0	13851.5	611.8	-19.633	-121.052	-24.218	259	6.151	• 558	278.134
2242.0	13646.7	611.2	-19.310	-122.491	-18.392	016	6.038	• 557	279.339
2243.0	13445.5	612.0	-18.918	-123.369	-10.148	•186	5.722	•557	281.791
2244.0	13247.7	611.6	-18.612	-123.723	-4.959	.217	5.487	• 556	283.079
2245.0	13052.8	611.4	-18.388	-123.949	-4.346	•061	5.327	•556	284.537
2246.0	12859.8	610.8	-18.203	-124.291	-1.961	074	5.435	•555	285.682
2247.0	12669.8	610.7	-17.846	-124.189	115	•138	5.619	.554	287.188
2248.0	12484.1	606.4	-17.416	-124.039	1.646	.275	6.069	•550	284.788
2249.0	12305.3	600.9	-16.879	-124.010	4.628	.246	5.765	• 545	281.114

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
				بنين برسرمستوسرم معصد						
	2250.0	12131.8	596.7	-16.655	-123.588	4.391	.288	5.348	• 540	278.643
	2251.0	11960.8	592.6	-16.588	-123.061	3.681	•548	5.033	•536	276.250
	2252.0	11791.0	589.4	-16.641	-122.909	3.212	.467	4.814	•533	274.657
	2253.0	11621.0	585.8	-16.796	-122.804	.013	.374	5.082	• 530	272.666
	2254.0	11451.7	583.6	-16.517	-122.846	676	.275	5.797	•527	272.077
	2255.0	11287.5	582.0	-16.146	-123.201	-2.951	169	5.228	• 526	271.909
	2256.0	11125.0	579.9	-16.090	-123.616	-2.770	358	5.366	• 523	271.233
	2257.0	10964.8	578.6	-15.829	-124.017	-1.739	324	5.402	.522	271.291
	2258.0	10807.3	578.4	-15.584	-124.073	-1.031	106	5.272	.522	272.354
	2259.0	10651.3	575.6	-15.631	-124.297	842	077	5.234	.519	271.002
	2260.0	10495.0	572.4	-15.742	-124.571	731	188	5.633	•516	269.231
	2261.0	10338.9	570.2	-15.786	-124.398	-1.740	.014	5.975	•513	268.445
	2262.0	10183.0	569.3	-15.719	-124.541	-4.450	027	6.312	•512	268.838
1	2263.0	10029.1	570.4	-15.452	-124.906	-6.641	082	6.021	.513	271.088
160-	2264.0	9875.6	570.7	-15.629	-125.305	-6.022	116	5.322	•513	272.619
Ò	2265.0	9718.7	572.0	-16.059	-125.797	-6.750	396	5.121	.514	275.118
	2266.0	9557.4	573.2	-16.459	-126.090	-6.535	392	5.019	.515	277.634
	2267.0	9391.8	575.9	-16.821	-126.312	-1.978	182	4.956	.517	281.590
	2268.0	9222.4	578.9	-17.090	-126.313	2.822	042	4.782	.519	285.942
	2269.0	9048.9	579.8	-17.579	-126.053	7.444	•040	4.458	.520	288 285
	2270.0	8869.9	580.3	-18.147	-125.708	9.960	054	4.605	•520	290.344
	2271.0	8686.4	581.9	-18.402	-125.328	8.924	235	4.745	•521	293.482
	2272.0	8501.0	583.1	-18.521	-124.911	7.327	229	4.453	• 522	296.322
	2273.0	8313.8	582.3	-18.745	-124.740	5.804	302	4.572	•521	297.067
	2274.0	8125.2	580.0	-18.943	-124.639	5.337	387	4.658	•518	296.340
	2275.0	7935.0	577.6	-19.217	-124.447	2.626	460	4.698	•516	
	2276.0	7743.4	577.6	-19.316	-124.241	-2.284	347	4.730		295.576
	2277.0	7551.6	576.6	-19.258	-124.526	-4.473	302	4.894	•515	297.192
	2278.0	7361.6	574.1	-19.102	-124.763	-3.902	225	4.862	•514	297.796
	2279.0	7173.8	572.8	-18.939	-124.765	850	034		•512	296.890
	LLITTU	121310	J 1 2 8 0	-100737	-1240103	070	034	4.586	.510	297.101

	TIME (SEC)	ALTDE (FT)	VELA (FPS)	GAMA (DEG)	HDGA (DEG)	SIGMAA (DEG)	BETAA (DEG)	ALPHAA (DEG)	HACHA (-)	QA (PSF)
	2280.0	6987.5	570.2	-18.918	-124.790	.254	047	4.359	•507	295.966
	2281.0	6801.8	567.7	-19.006	-124.730	393	145	4.189	•505	294.974
	2282.0	6616.0	564.5	-19.084	-124.738	-1.330	121	4.271	• 502	293.242
	2283.0	6431.4	562.1	-18.976	-124.832	.894	039	4.215	.499	292.253
	2284.0	6248.1	556.1	-19.106	-124.915	2.501	023	4.127	•494	287.604
	2285.0	6065.5	551.5	-19.205	-124.824	2.054	.037	4.249	• 489	284.303
	2286.0	5883.3	549.0	-19.288	-124.761	1.028	• 006	4.452	. 487	283.167
	2287.0	5701.1	546.5	-19.335	-124.657	.998	066	4.851	.484	282.064
	2288.0	5520.4	545.5	-19.119	-124.622	-2.229	326	5.140	.483	282.550
	2289.0	5341.6	545.3	-18.972	-124.589	-7.124	189	5.162	.483	283.759
-	2290.0	5163.6	547.9	-18.852	-124.452	-4.658	.642	5.170	.484	287.844
	2291.0	4985.6	549.7	-18.794	-124.317	611	1.035	5.151	• 486	291.253
	2292.0	4807.6	552.5	-18.680	-124.104	2.326	•909	5.067	.488	295.702
÷	2293.0	4629.8	555.2	-18.568	-123.678	4.150	.730	4.999	.490	300.063
161	2294.0	4452.2	558.7	-18.452	-123.494	4.599	.296	4.899	.493	305.339
'	2295.0	4274.2	561.8	-18.383	-123.237	4.856	.138	5.005	•495	310.381
	2296.0	4096 • 2	564.0	-18.317	-123.062	4.981	119	4.972	.497	314.319
	2297.0	3917.9	568.0	-18.144	-122.585	3.994	.119	5.293	•500	320.359
	2298.0	3741.8	569.3	-17.718	-122.314	2.613	.144	5.543	.501	323.477
	2299.0	3570.2	570.7	-17.041	-122.303	2.243	063	6.133	•502	326.528
	2300.0	3407.1	571.3	-15.950	-122.279	-1.775	256	6.365	•502	328.774
	2301.0	3254.7	569.7	-14.802	-122.440	-2.098	183	6.472	•500	328.285
	2302.0	3113.9	566.6	-13.782	-122.274	-1.819	.103	6.181	.497	325.979
	2303.0	2982.3	559.7	-13.023	-122.400	2.143	•133	6.402	.491	319.268
	2304.0	2860.6	553.0	-12.009	-122.487	2.103	264	6.639	.485	312.664
•	2305.0	2749.5	548.2	-11.162	-122.620	-2.701	384	6.394	.481	308.247
	2306.0	2646.6	542.2	-10.310	-123.142	-2.251	362	7.027	,475	302.413
	2307.0	2554.8	536.8	-9.072	-123.612	•408	269	7.255	•470	297.098
	2308.0	2475.2	532.0	-7.874	-123.611	1.582	329	6.958	• 466	292.463
	2309.0	2406.6	526.5	-6.881	-123.480	1.624	155	6.744	.461	286.995

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	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	2310.0	2346.6	519.5	-6.072	-123.359	1.765	• 202	6.982	• 455	279.895
	2311.0	2295.8	511.1	-4.988	-123.271	2.334	•495	7.571	.447	271.250
	2312.0	2257.0	501.4	-3.609	-123.093	4.730	.674	7.763	.439	261.302
	2313.0	2229.9	491.7	-2.458	-122.612	5.953	.776	7.685	•430	251.486
	2314.0	2213.0	481.8	-1.431	-122.217	5.759	•650	7.244	.422	241.584
	2315.0	2202.0	472.5	-1.114	-121.767	4.948	•700	6.798	•413	232.448
	2316.0	2192.5	463.6	-1.036	-121.540	3.063	•639	6.816	• 406	223.780
	2317.0	2183.4	454.9	-1.066	-121.373	1.488	•584	6.936	.398	215.553
* . * * * * * * * * * * * * * * * * * *	2318.0	2173.9	446.6	-1.182	-121.342	-1.806	.508	7.146	•391	207.814
	2319.0	2163.5	438.7	-1.341	-121.547	-4.400	.455	7.603	•384	200.587
	2320.0	2152.4	430.8	-1.325	-121.883	-3.656	.622	8.249	.377	193.490
	2321.0	2142.8	422.8	-1.074	-122.138	-2.050	•697	8.464	•370	186.373
	2322.0	2134.9	415.1	964	-122.307	-2.533	•580	8.490	•363	179.713
 	2323.0	2127.5	407.5	820	-122.539	-2.484	.600	9.050	.357	173.233
62	2324.0	2123.0	399.5	241	-122.733	451	.679	9.157	.349	166.509
7	2325.0	2122.2	391.7	.123	-122.785	.130	.561	8.721	•343	160.042
	2326.0	2122.2	384.5	.008	-122.759	.724	•494	8.555	•336	154.235
	2327.0	2120.9	377.5	186	-122.770	263	•362	8.821	• 330	148.704
	2328.0	2118.8	370.7	264	-122.747	1.361	•488	9.994	.324	143.358
	2329.0	2116.6	363.9	216	-122.689	480	.158	9.098	.318	138.143
	2330.0	2115.0	357.3	132	-122.685	068	.332	9.023	•313	133.219
	2331.0	2114.0	350.5	.027	-122.706	•172	.323	8.608	.307	128.230
	2332.0	2113.9	344.1	.095	-122.812	206	.166	7.595	•301	123.587
	2333.0	2113.8	338.8	.069	-122.935	•450	050	6.964	.296	119.802
	2334.0	2113.7	333.8	.117	-122.976	.513	277	6.242	.292	116.308
	2335.0	2114.1	329.2	.163	-123.010	040	477	5.361	.288	113.061
	2336.0	2114.4	324.5	.152	-122.998	003	562	4.320	.284	109.861
	2337.0	2114.7	319.8	.100	-122.962	029	681	2.801	.280	106.696
	2338.0	2114.3	314.8	056	-122.860	088	801	1.036	.275	103.397
	2339.0	2114.3	308.2	.408	-122.752	167	853	-2.502	.270	99.094

				•						
	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	AL PHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
		The second section of the second section is a second section of the second section sec					y			
_	2340.0	2116.0	300.8	.169	-122.673	052	944	-3.662	• 263	94.438
	2341.0	2115.9	295.0	.127	-122.515	060	-1.025	-3.740	• 258	90.839
	2342.0	2116.5	289.2	.217	-122.328	100	-1.051	-4.039	.253	87.303
•	2343.0	2116.7	283.6	.029	-122.186	025	-1.059	-3.739	.248	83.928
	2344.0	2116.2	277.9	.075	-122.033	030	961	-3.811	.243	80.581
	2345.0	2116.8	272.2	.253	-121.944	260	877	-4.011	.238	77.337
	2346.0	2117.2	266.4	.125	-121.944	083	841	-3.901	• 233	74.050
-	2347.0	2117.3	260.7	.094	-121.950	.008	824	-3.798	.228	70.921
•	2348.0	2117.4	255.5	.151	-121.906	.050	919	-3.796	.224	68.127
	2349.0	2117.7	250.1	.083	-121.855	•078	945	-3.775	.219	65.279
	2350.0	2117.4	243.8	.073	-121.948	•268	720	-3.818	.213	62.031
	2351.0	2117.8	235.5	.210	-122.279	•675	563	-4.042	• 206	57.900
	2352.0	2118.1	226.8	.132	-122.518	•537	833	-3.910	.198	53.674
	2353.0	2118.3	219.3	.157	-122.683	•580	916	-3.892	•192	50.168
	2354.0	2118.5	212.7	.134	-122.807	• 556	-1.052	-3.875	.186	47.212
	2355.0	2118.5	206.0	.063	-122.913	•534	-1.089	-3.851	.180	44.265
	2356.0	2118.4	198.3	.084	-123.078	•553	-1.126	-3.887	.173	41.041
	2357.0	2118.5	190.5	.101	-123.182	•465	-1.250	-3.880	•167	37.853
	2358.0	2118.5	183.2	.149	-123.266	•445	-1.323	-3.936	.160	35.022
	2359.0	2118.9	176.2	.174	-123.405	.472	-1.321	-3.994	.154	32.401
	2360.0	2118.9	169.1	.054	-123.524	.434	-1.399	-3.840	.148	29.847
	2361.0	2119.0	162.0	.210	-123.555	•404	-1.571	-4.012	.142	27.400
	2362.0	2119.3	155.3	.120	-123.583	• 462	-1.594	-3.919	•136	25.176
	2363.0	2119.2	148.7	.072	-123.724	• 566	-1.654	-3.831	•130	23.086
	2364.0	2119.3	141.9	.147	-123.775	.527	-1.665	-3.931	.124	21.007
	2365.0	2119.4	134.9	.092	-123.860	.634	-1.773	-3.835	.118	18.983
	2366.0	2119.3	127.9	.045	-123.920	.557	-1.970	-3.805	.112	17.065
	2367.0	2119.3	120.9	.089	-123.959	• 406	-2.120	-3.899	.106	15.245
	2368.0	2119.3	113.8	.138	-124.004	•562	-2.173	-3.937	• 100	13.504
	2369.0	2119.5	106.4	•188	-124.084	•584	-2.359	-3.994	• 093	11.814
-	According to the second section of the second section is a second		The second secon							

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-163-

STS8BET USING LAIRJ8 (10/12/83), INERTIAL-BET8T06, NXO482 DYN. DATA. PAGE 80

	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	2370.0	2119.5	99.1	•084	-124.214	.449	-2.620	-3.893	• 087	10.249
	2371.0	2119.6	92.0	.149	-124.476	•530	-2.715	-3.943	•080	8.825
	2372.0	2119.6	84.7	.027	-124.888	•620	-2.749	-3.808	.074	7.488
	2373.0	2119.5	77.3	.123	-125.405	• 456	-3.145	-3.924	•068	6.239
	2374.0	2119.7	69.9	.176	-125.853	•483	-3.609	-3.968	.061	5.104
	2375.0	2119.6	62.7	051	-126.342	•555	-4.051	-3.720	•055	4.102
	2376.0	2119.6	55.2	•030	-126.950	•528	-4.546	-3.791	•048	3.183
	2377.0	2119.5	47.7	027	-127.770	•644	-5.233	-3.731	.042	2.376
	2378.0	2119.5	40.4	.119	-128.760	•586	-6.232	-3.858	.035	1.702
	2379.0	2119.4	33.5	144	-130.147	.613	-7.755	-3.574	•029	1.173
	2380.0	2119.2	27.0	501	-131.649	.628	-9.469	-3.239	•024	•761
	2381.0	2119.0	21.1	187	-134.320	•567	-12.318	-3.520	•018	• 465
	2382.0	2119.0	15.1	136	-139.443	•568	-17.544	-3.543	•013	•237
٠,	2383.0	2118.8	10.6	968	-147.552	.994	-25.676	-2.462	•009	.116
.16	2384.0	2119.0	9.9	2.197	-149.525	612	-27.663	-5.926	•009	.101
64-	2385.0	2119.0	10.2	798	-148.394	.947	-26.520	-2.626	•009	•109
•		2119.1	10.2	646	-148.846	.868	-26.979	-2.729	•009	•106
	2386.0	2118.9	10.0	431	-148.914	.767	-27.044	-2.983	.009	•104
	2387.0	2118.9	10.0	 661	-148.987	.888	-27.116	-2.718	•009	.105
	2388.0	PROPERTY AND ADDRESS OF THE PARTY OF THE PAR			-148.915	.864	-27.051	-2.765	•009	.105
	2389.0	2118.6	10.1	625	-148.941	.885	-27.051	-2.728	•009	•105
	2390.0	2118.5	10.0	659 600	-148.906	•854	-27.042	-2.788	•009	•105
	2391.0	2118.4	10.1	Actor Contract of the Party States of the Contract of the Cont	-148.850	•799	-26.985	-2.922	.009	
	2392.0	2118.3	10.1	483	and the same of th	management of the contract of	-27.039	-2.771	7 1 10 1 N TA 10 10 10 10 10 10 10 10 10 10 10 10 10	.106
	2393.0	2118.2	10.1	617	-148.910	.867	 And A Thirty To Aller To Take 1 		•009	•106
	2394.0	2118.1	10.0	767	-148.931	•940	-27.057	-2.600	•009	.105
	2395.0	2118.0	10.0	685	-149.038	.901	-27.165	-2.689	•009	.105
	2396.0	2117.9	10.0	541	-148.906	.828	-27.039	-2.854	•009	•105
	2397.0	2117.8	10.0	540	-148.793	.824	-26.919	-2.857	•009	•105
	2398.0	2117.7	10.1	622	-149.019	.867	-27.140	-2.762	• 009	•106
	2399.0	2117.6	10.1	639	-149.102	.876	-27.223	-2.742	•009	•106

PAGE

	TIME	ALTDE	VELA	GANA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
					1/0 055	0.43	47 170		000	106
	2400.0	2117.5	10.1	623	-149.055	.867	-27.179	-2.759	•009	•106
	2401.0	2117.3	10.1	630	-148.934	.869	-27.060	-2.751	•009	•106
_	2402.0	2117.2	10.1	670	-148.829	.891	-26.955	-2.704	•009	.106
	2403.0	2117.1	10.0	711	-148.898	.914	-27.026	-2.660	• 009	•105
	2404.0	2117.0	10.1	684	-148.988	.897	-27.117	-2.694	•009	.106
	2405.0	2116.9	10.1	652	-148.899	.872	-27.028	-2.734	•009	•106
	2406.0	2116.8	10.0	655	-148.870	.877	-26.997	-2.730	•009	•105
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2407.0	2116.6	10.0	 765	-148.864	•942	-26.988	-2.600	•009	.105
	2408.0	2116.5	10.1	697	-148.902	•909	-27.028	-2.675	•009	.106
	2409.0	2116.4	10.1	662	-148.899	.892	-27.028	-2.715	•009	•106
	2410.0	2116.3	10.1	728	-148.956	•919	-27.082	-2.641	•009	•105
	2411.0	2116.1	10.0	762	-148.847	.929	-26.970	-2.604	•009	•105
	2412.0	2116.0	10.1	633	-148.875	.878	-27.005	-2.743	•009	•105
1	2413.0	2115.9	10.1	662	-148.937	.888	-27.065	-2.712	•009	.105
- 65	2414.0	2115.8	10.0	711	-148.955	•908	-27.082	-2.657	.009	.105
1	2415.0	2115.6	10.0	739	-148.844	.921	-26.966	-2.625	•009	.105
	2416.0	2115.5	10.1	742	-148.902	.924	-27.023	-2.623	•009	.106
	2417.0	2115.4	10.1	745	-148.809	.924	-26.938	-2.622	• 009	•105
	2418.0	2115.3	10.1	684	-148.824	.897	-26.951	-2.688	•009	.106
	2419.0	2115.1	10.1	771	-148.917	.947	-27.043	-2.590	.009	.106
	2420.0	2115.0	10.1	715	-148.883	•908	-27.010	-2.655	•009	.105
	2421.0	2114.9	10.1	818	-148.749	•960	-26.870	-2.546	.009	•106
A R P III TO THE TANK I THE	2422.0	2114.7	10.1	764	-148.813	•935	-26.940	-2.601	.009	.106
	2423.0	2114.6	10.1	782	-148.835	.943	-26.958	-2.585	•009	•105
	2424.0	2114.4	10.1	862	-148.866	.986	-26.992	-2.484	.009	.106
	2425.0	2114.3	10.1	736	-148.848	.923	-26.977	-2.629	• 009	•106
	2426.0	2114.2	10.1	833	-148.825	.970	-26.948	-2.520	.009	.106
	2427.0	2114.0	10.1	888	-148.840	1.001	-26.962	-2.455	.009	.106
	2428.0	2113.9	10.1	817	-148.803	•966	-26.927	-2.532	• 009	•106
	2429.0	2113.7	10.1	704	-148.823	•905	-26.948	-2.660	•009	.106

e s en	TIME	ALTDE	VELA	GAMA	HDGA	SIGMAA	BETAA	ALPHAA	MACHA	QA
	(SEC)	(FT)	(FPS)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(-)	(PSF)
	2430.0	2113.6	10.1	731	-148.741	.914	-26.866	-2.635	•009	•106
	2431.0	2113.5	10.1	872	-148.717	.988	-26.843	-2.477	•009	•106
	2432.0	2113.3	10.1	805	-148.834	.957	-26.959	-2.550	• 009	.106
	2433.0	2113.2	10.1	946	-148.818	1.027	-26.939	-2.394	.009	.106
	2434.0	2113.0	10.1	794	-148.638	.948	-26.769	-2.565	•009	•105
	2435.0	2112.9	10.1	822	-148.629	•961	-26.756	-2.536	.009	.106
	2436.0	2112.7	10.1	910	-148.688	1.009	-26.810	-2.433	• 009	•106
	2437.0	2112.6	10.1	776	-148.662	•939	-26.788	-2.585	• 009	.106
	2438.0	2112.4	10.1	896	-148.734	1.000	-26.858	-2.450	.009	.106
	2439.0	2112.3	10.1	897	-148.563	1.001	-26.688	-2.447	•009	.106
	2440.0	2112.1	10.1	837	-148.562	.963	-26.688	-2.519	• 009	•106
	2441.0	2112.0	10.0	902	-148.606	•995	-26.731	-2.445	• 009	•105
	2442.0	2111.8	10.0	887	-148.491	•990	-26.614	-2.465	• 009	•105
1	2443.0	2111.6	10.0	-1.009	-148.537	1.053	-26.662	-2.325	.009	.105
16	2444.0	2111.5	10.0	802	-148.499	.952	-26.625	-2.554	.009	.105
6	2445.0	2111.3	10.1	859	-148.560	•979	-26.685	-2.493	•009	.106

APPENDIX D

STS-8 Source and Output Products for Archival

D. 1 STS-8 Output Products

NX0664

MANCE	Mann average					
NAME	USER CATALOG	DESCRIPTION				
ВЕТ8Т06	169750N	Final reconstructed trajectory (40 word format per AMA 81-1)				
STS8BET	274885C	Final Extended BET (66 word format per AMA 81-11)				
NAVBET8	389102C	STS-8 onboard nav BET (66 word format)				
LAIRJ8	476250C	Final LAIRS file (STS8MET/UN=712662N with jimsphere winds)				
TRWSTS8	274885C	Reformatted JSC/TRW BET (66 word format)				
(b) TAPES						
REEL NO.	DESCRIPTION					
NX0483	STS-8 AEROBET (201	words per AMA 82-9)				
NX0484	Duplicate of above	Duplicate of above				
NX0844	25 Hz IMU2 GTFILE	(62 words per AMA 81-20)				
NX0943	25 Hz ACIP GTFILEs	(15 CDC System Records, 62 word forms				
NX0478	Final STS-8 residu	als for BET8T06				
NX0477	Edited tracking ta	pe				
NX0479	1 Hz OI-2 for AERO	BET				
NX0482		body axes for STS8BET, AEROBET ated per BET8T06 solution)				
NY1030	25 Hz "calibrated"	ACIP file (epoch: 2531050 GMT)				
ND0376		t for trajectory reconstruction) - platform coordinates (second CDC				
NX0603	Master ACIP cal in	put tape				
IX0622	25 Hz IMU1 @ ACIP)				
NX0625	25 Hz IMU2 @ ACIP	body axes				
NY1006	25 Hz IMU3 @ ACIP	J				
NX0635	25 Hz edited, "thi	med! ACTP data				

25 Hz ACIP interpolated temperatures

D. 2 Source Tapes Recieved via NASA LaRC

(a)	T/M	tapes	
			۰

REEL NO.	DESCRIPTION
NL1253	OI-1
NM0543	01-2
NN1148	01-4
NK1107	OI-1 from CBET01

(b) ACIP Tapes

REEL NO.	DESCRIPTION
NV0480/NW0444/ NV0306	ACIP housekeeping
NV0818/NV0925/	150 Hz linear cal ACIP

(c) Tracking Tapes

REEL NO.	DESCRIPTION
NW1018	JSC/TRW tracking data
NW0916	Goddard Space Flight Center data

(d) Other

REEL NO.	DESCRIPTION
NM0878	JSC/TRW Descent BET
ST5246	Jimsphere data (balloon 1; landing - $3\frac{1}{2}$ hours)
ST5247	Jimsphere data (balloon 2; landing - $1\frac{1}{2}$ hours)
ST5248	Jimsphere data (balloon 3; landing + 15 minutes)

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		6. Performing Organization Code		
7. Author(s)		8. Performing Organization Report No.		
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9. Performing Organization Name and Address				
Analytical Mechanics Associ 17 Research Road	ates, Inc.	11. Contract or Grant No.		
Hampton, VA 23666		NAS1-16087		
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National Aeronautics and Sp Washington, DC 20546	ace Administration	14. Sponsoring Agency Code		
15. Supplementary Notes				

Langley Technical Monitor: Harold R. Compton

16. Abstract

This report documents the final Best Estimate Trajectory (BET) products, i.e., the reconstructed trajectory, the Extended BET, AEROBET and MMLE input files, generated for the eighth NASA Space Shuttle flight.

Section I discusses the reconstructed trajectory (inertial BET) for this "Challenger" flight, the first night landing. State (position, velocity, and attitude) plus three accelerometer scale factors were determined from fitting the Guam S-band data, seven C-band passes, and pseudo Doppler and altimeter during rollout on Runway 22. The anchor epoch utilized for the batch weighted-least-squares determination was Sept. 5, 1983 7 the 50.0 (25310 GMT seconds). The spacecraft altitude at epoch is ~617 kft. IMU2 data were selected for the reconstruction.

17. Key Words (Suggested by Author(s)	18. Distribution Statement			
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